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SEPTEMBER 1987

ICHTHYOPLANKTON AND STATION DATA FOR CALIFORNIA COOPERATIVE OCEANIC FISHERIES INVESTIGATIONS SURVEY CRUISES IN 1953

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NOAA-TM-NMFS-SWFC-81

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Marine Fisheries Service
Southwest Fisheries Center

NOAA Technical Memorandum NMFS

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CONTENTS

	Page
List of Figures	iii
List of Tables	iv
Abstract	1
Introduction	1
Sampling Area and Pattern	2
Sampling Gear and Methods	3
Laboratory Procedures	4
Identification	5
Computer Entry and Editing	10
Species Summary	10
Explanation of Tables	11
Acknowledgments	12
Literature Cited	13
Figures	15
Tables	29
Index	183

LIST OF FIGURES

		Page
Figure 1.	Composite arrangement of diagrammatic charts showing areas sampled on each CalCOFI cruise during 1953	15
Figure 2.	Station pattern for CalCOFI Cruise 5301 showing tracks for each vessel	16
Figure 3.	Station pattern for CalCOFI Cruise 5302	17
Figure 4.	Station pattern for CalCOFI Cruise 5303	18
Figure 5.	Station pattern for CalCOFI Cruise 5304	19
Figure 6.	Station pattern for CalCOFI Cruise 5305	20
Figure 7.	Station pattern for CalCOFI Cruise 5306	21
Figure 8.	Station pattern for CalCOFI Cruise 5307	22
Figure 9.	Station pattern for CalCOFI Cruise 5308	23
Figure 10.	Station pattern for CalCOFI Cruise 5309	24
Figure 11.	Station pattern for CalCOFI Cruise 5310	25
Figure 12.	Station pattern for CalCOFI Cruise 5311	26
Figure 13.	Station pattern for CalCOFI Cruise 5312	27
Figure 14.	The basic station plan for CalCOFI cruises from 1950 to the present	28

LIST OF TABLES

		Page
Table 1.	Station and plankton tow data for CalCOFI cruises in 1953	29
Table 2.	Pooled occurrences of fish larvae taken during CalCOFI cruises in 1953	66
Table 3.	Pooled numbers of fish larvae taken during CalCOFI cruises in 1953	69
Table 4.	Numbers of fish larvae taken on stations occupied during CalCOFI cruises in 1953	72
Table 5.	Summary of pooled occurrences of fish larvae taken on CalCOFI cruises from 1951-1960	178
Table 6.	List of stations with multiple occupancies in one month during 1953	182

ABSTRACT

This report provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) cruises conducted off California and Baja California in 1953. It is the third report in a series that presents these data for all biological-oceanographic CalCOFI surveys from 1951 to the present. A total of 1429 stations was occupied during 12 monthly multivessel cruises over the quarter-million square mile survey area which extends from the California-Oregon border to Cape San Lucas, Mexico and seaward to several hundred miles. The data are listed in a series of 6 tables; the background, methodology, and information necessary for interpretation and quantitative analysis of the data are presented in an accompanying text. All pertinent station and tow data, including volumes of water strained and standard haul factors are listed in the first table. Another key table lists, by station and month, standardized counts of each of the 108 larval fish categories identified from survey samples. This and previous and subsequent reports make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the newly developed computer data base.

INTRODUCTION

This report, the third of a series, provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) joint biological-oceanographic survey cruises conducted in 1953. This program was initiated in 1949, under the sponsorship of the Marine Research Committee of the State of California, to study the population fluctuations of the Pacific sardine (*Sardinops sagax*) and the environmental factors that may play a role in such fluctuations. CalCOFI, known as the California Cooperative Sardine Research Program from 1949 to 1953, was made up of representatives of the South Pacific Fisheries Investigations (SPFI) of the U.S. Fish and Wildlife Service [now the La Jolla Laboratory, National Marine Fisheries Service (NMFS)], the Scripps Institution of Oceanography (SIO), the California Department of Fish and Game (CDFG), the California Academy of Sciences (CAS) and the Hopkins Marine Station of Stanford University. The first three of these agencies supplied ships and personnel to conduct the sea surveys. NMFS processed the plankton samples and analyzed the ichthyoplankton from them. SIO processed and analyzed the hydrographic samples and measurements and also analyzed invertebrate groups from the plankton samples.

The boundaries, station placement, and sampling frequency for the CalCOFI survey area were based on the results of joint biological and oceanographic cruises conducted by NMFS and SIO during 1939-41. Those cruises were designed to collect sardine eggs and larvae and associated hydrographic data over the entire areal and seasonal spawning range of the species. On these survey cruises, plankton tows were made to 70 m, a depth which

encompassed the vertical distribution of sardine eggs and larvae. Wide-ranging joint biological and oceanographic survey cruises were resumed in 1949 with sardine as the focus; however, an increasing interest in other biological components resulted in the deepening of standard tows to 140 m in 1951. This marked the beginning of truly quantitative ichthyoplankton sampling on CalCOFI surveys.

Data resulting from CalCOFI surveys in 1953 have been published in a number of forms. Hydrographic data (Reid et al., 1965), zooplankton volumes (Staff, SPFI, 1954; Thrailkill, 1956; Smith, 1971) and ichthyoplankton data for selected species (Ahlstrom and Kramer, 1955) were presented in standard formats. The latter lists counts for eggs and larvae of sardine and for larvae of northern anchovy (*Engraulis mordax*), jack mackerel (*Trachurus symmetricus*), Pacific mackerel (*Scomber japonicus*), Pacific hake (*Merluccius productus*), and rockfishes (*Sebastes* spp.). Also, length frequencies are listed for larvae of sardine, anchovy, jack mackerel, and Pacific mackerel. Distribution maps of larvae of 5 of these taxa taken on CalCOFI surveys during 1953 are presented in the CalCOFI Atlas series (Kramer and Ahlstrom, 1968; Ahlstrom, 1969; Kramer, 1970; Ahlstrom et al., 1978).

A computer data base for eggs and larvae of sardine and anchovy and for larvae of hake, and the two mackerels was established in 1969. The development of a data base for other fish larvae is a complex undertaking because competency of identification has evolved steadily over the past 38 years. We began the task of producing a CalCOFI ichthyoplankton data base and associated data report series in 1983. All available original records for 1953 were subjected to an extensive verification and editing process to produce this report. This and previous (Ambrose et al., 1987; Sandknop et al., 1987) and subsequent reports make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the computer data base. The data base will be modified when additional errors are discovered and when composite taxa from the earlier years are reidentified. These reports are the fundamental reference documents against which subsequent changes in the data base can be compared.

SAMPLING AREA AND PATTERN

In 1953, CalCOFI survey cruises were conducted at monthly intervals. A total of 1429 stations included in this data base was occupied on 12 cruises, with an average of 119 stations per cruise (range of 19-211). Coverage of the survey station pattern varied among cruises and the entire quarter-million square mile survey area was not covered on any single cruise (Figures 1-13; Table 1). The area off northern California (lines 40-57) was not covered in 1953. Off central California (lines 60-77) stations were occupied monthly, from April through August. The area between Pt. Conception, California and Pt.

San Juanico, Baja California (lines 80-137) was surveyed monthly, except for September and November. Cruise 5310 began on line 82.3 and Cruise 5312 began on line 81.8 but on both cruises all lines south to line 137 were covered. Cruises 5309 and 5311 were short cruises covering the area south of Pt. Conception and, additionally, the Sebastian Viscaino Bay region on 5311. The area off southern Baja California (lines 140-150) was surveyed only in January. Coverage extended seaward to station 160 on lines 80 and 90 on Cruises 5304 and 5305 (approximately 450-500 miles offshore) but typically did not extend beyond station 90 (approximately 160-250 miles offshore).[1] Coverage of the pattern was heaviest from March through June and diminished during the fall and winter.

Six vessels were employed on these cruises: the *Spencer F. Baird*, *Crest*, *Horizon*, *Paolina T*, and *E. W. Scripps* of SIO, and the *Yellowfin* of CDFG. One to five vessels participated on each cruise. The *Crest* was used on all cruises except 5311 (Ahlstrom, 1955).

SAMPLING GEAR AND METHODS

The standard CalCOFI net used from 1949 to 1969 had a 1-m diameter mouth opening (0.785 m^2 area) and an overall length of about 5 m. The net was constructed of 30xxx gauze, a heavy duty grade of silk bolting cloth, with a mesh size of 0.55 mm after shrinkage. The last 40 cm of the cone and the cod end were constructed of 56xxx grit gauze which had a mesh size of 0.25 mm after shrinkage. The net ring was fastened to a short 3-lead bridle connected to several meters of line which attached to the towing cable by a clamp. A current meter was suspended in the center of the net mouth to measure volume of water filtered (see Kramer et al., 1972, for further details).

The standard tow from 1951 through 1968 was an oblique haul to 140 m depth (to 15 m of the bottom in shallow areas) designed to filter a constant amount of water per depth interval (ca.

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[1]CalCOFI lines (Figure 14) are arranged perpendicular to the coastline and extend from the Canadian border (line 10) to below Cape San Lucas, Baja California (line 157). Stations were established on the basis of a perpendicular to line 80 (off Pt. Conception) at a point designated as station 60. Stations were plotted seaward and shoreward from station 60 on each line. Cardinal CalCOFI lines (those ending in "0") are 120 miles apart and usually bracket two ordinal lines (ending in "3" or "7"), so that lines are 40 miles apart over most of the pattern. Cardinal stations are 40 miles apart and typically these are separated by a station number ending in "5" so that stations are 20 miles apart out to station 90 on most lines. Stations are placed at closer intervals near the coast and islands to accommodate these features (see Kramer et al., 1972 for further details).

$3m^3/m$ of depth) over the vertical range of most ichthyoplankters. Hauls were made at a ship speed of 1.5-2.0 knots and initiated by clamping the net line to the towing cable with the 45 kg terminal weight about 10-15 m below the surface. The net was lowered to 140 m depth by paying out 200 m of wire over a 4 minute period (35 m of depth/min.). After fishing at depth for 30 seconds, the net was retrieved at 20 m/min. (14 m depth/min.). The angle of stray of the towing cable was recorded every 30 seconds and maintained at 45° (±3°) by adjusting the ship speed and course. After reaching the surface, the net was washed down and the samples preserved in 5% formalin buffered with sodium borate. Flowmeter readings were made at the beginning and end of each tow. Detailed descriptions of gear and methods are given by Ahlstrom (1953), Kramer et al. (1972), and Smith and Richardson (1977).

LABORATORY PROCEDURES

Laboratory processing began with the determination of a displacement volume for each sample (methods described in Staff, SPFI, 1953 and Kramer et al., 1972). Zooplankton volumes (including ichthyoplankton) of samples collected in 1953 are listed in Staff, SPFI (1954) and presented graphically in Thrailkill (1956) and Smith (1971).

Sorting involved the removal of ichthyoplankton from the sample and identification and separation of eggs and larvae of selected species (see introduction). Usually, each sample was sorted completely; however, some of the samples were fractioned into aliquots using a Folsom plankton splitter (McEwen et al., 1954) prior to sorting. Several criteria[2] were used to determine whether a sample was fractioned: samples containing an abundance of thaliacians and coelenterates and exceeding 150 ml in total plankton volume were fractioned (to 50%, 25%, 12.5%, or 6.25%) to approximate a reduced volume of 50 ml for sorting; samples with an excessive quantity of fish eggs and/or larvae were occasionally fractioned to expedite the sorting process in order to meet scheduled deadlines. If the identified fraction of an aliquot yielded rare or interesting species of fish larvae, the remaining fraction was frequently sorted and identified with the intent of finding additional specimens. Aliquot percentages for fractioned samples from 1953 are listed in Table 1 under the "Percent Sorted" column; 25% of all samples were fractioned in 1953.

A "standard haul factor" (SHF) was calculated for each tow to make them comparable and allow estimations of areal abundance. This factor adjusts the number of eggs or larvae in a haul to the number in 10 m^3 of water strained per meter of depth fished. If the vertical distribution of the species has been encompassed,

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[2]Personal communication, James R. Thrailkill, National Marine Fisheries Service, Southwest Fisheries Center, La Jolla, CA.

then the adjusted value is equivalent to the number under 10 m^2 of sea surface. The SHF is calculated for each haul by the formula:

$$SHF = \frac{10\ D}{V}$$

where D = depth of haul = cosine of the average angle of stray of the towing cable multiplied by cable length (m)

V = total volume of water (m^3) strained during the haul

$$V = R \cdot a \cdot p$$

where R = total number of revolutions of the current meter during the haul

a = area (m^2) of the mouth of the net

p = length of column of water (m) needed to produce one revolution of the current meter.

Tow depth, volume of water strained, and standard haul factor are listed in Table 1 for each tow taken during 1953. Detailed descriptions of factors involved in calculating these values are presented in Ahlstrom (1948), Kramer et al. (1972), and Smith and Richardson (1977).

IDENTIFICATION

Identification of ichthyoplankton species beyond those separated during the sorting process was carried out by a separate group of specialists. Ontogenetic stages of fishes are inherently difficult to identify and this is further complicated by the large number and diversity of species which contribute to the ichthyoplankton of the California Current region. Most identifications were accomplished by establishing ontogenetic series on the basis of morphology, meristics, and pigmentation and then identifying these series by relating them to known metamorphic, juvenile, or adult stages with overlapping features (Powles and Markle, 1984). A total of 106 taxa was identified for 1953, with 59 taken to species, 22 to genus, 21 to family, and 4 to order. Some of the developmental series recognized originally could not be assigned scientific names, particularly in the Bathylagidae, Myctophidae, and Pleuronectiformes. These were given descriptive names, which later were changed to scientific names as they became known.

The task of producing a reliable and equitable ichthyoplankton data base required extensive procedures to verify, correct, and edit the original identifications. The

primary data source was the original identification sheets (see Kramer et al., 1972, for examples); however, a critical resource used in all phases of this process was the CalCOFI ichthyoplankton collection in which the samples are archived. Throughout the course of CalCOFI ichthyoplankton studies, samples have been identified to the lowest taxon possible. In reviewing these identifications for the data base, our approach has been conservative and we have preserved those identifications and counts which we could confirm, while correcting as many of the errors as possible. During the coding of the identification sheets, the "descriptive types" were assigned scientific names and reexamined, if necessary. After computer entry, taxonomic errors and inconsistencies in the data base were corrected and the most obvious identification errors were corrected. Our current knowledge of ichthyoplankton techniques coupled with a precise understanding of the development of identification competency in the program over the years allowed us to critically judge the historical records. Identifications were changed to different taxa, lumped to a higher taxonomic category, or given a more precise taxonomic name. In many cases, identifications of a taxon were inconsistent among cruises in a year, because of varying competency of identifiers. These records were made equitable by lumping to the higher taxonomic category to avoid biases that could result in quantitative misinterpretations.

Next, statistical, seasonal, and geographic outliers were identified, employing a series of graphic summaries and listings. Examination of geographic outliers proved to be especially effective because of our accumulated knowledge of species distributions. In the course of examining samples for these outliers, other identification errors were discovered and eventually all taxa were scrutinized to some extent. Lastly, certain taxa were reexamined in all samples for the entire CalCOFI time series. These taxa were selected because of their commercial, ecological, phylogenetic, or zoogeographic importance or because taxonomic confusion was at the ordinal level. The following is a list of the taxa for 1953 which received special attention, with explanations and caveats intended to aid in quantitative interpretations:

Anguilliformes - tentative and sporadic identifications to family or lower taxon lumped to order.

Sardinops sagax - all specimens south of line 120 checked for misidentification of *Opisthonema* spp.

Engraulidae - includes nearshore taxa (mostly *Anchoa* spp.) large enough to separate from *Engraulis mordax*. Some nearshore samples of small *E. mordax* may contain other anchovy genera, but could not be differentiated.

Nansenia spp. - all specimens checked and identified as *N. candida* or *N. crassa*; all specimens of these species near their range boundaries checked.

Sternoptychidae - tentative and sporadic identifications of hatchetfishes to genus were lumped to family.

Bathophilus spp. - all specimens checked.

Scopelarchidae - tentative and sporadic identifications to genus lumped to family.

Ceratoscopelus townsendi - low number probably reflects both inconsistent identification and fewer offshore samples.

Lampadena urophaos - absence of this species may indicate inability to identify it or be a reflection of lower sampling effort after June.

Lampanyctus spp. - tentative and sporadic identifications to species (mostly descriptive types) lumped to genus.

Stenobrachius leucopsarus - specimens at margins of range reexamined.

Diogenichthys atlanticus - all specimens at margins of range checked.

Diogenichthys laternatus - all specimens at margins of range checked.

Electrona rissoi - recognition of this species was inconsistent and others may be included in *Protomyctophum crockeri* or Myctophidae.

Hygophum spp. - all specimens reidentified to species; residuals are small, poorly preserved specimens.

Protomyctophum crockeri - some samples on northern lines may contain *P. thompsoni*, which was not identified at the time.

Symbolophorus californiensis - all specimens south of line 120 checked for confusion with *Hygophum* spp., stemming from descriptive names.

Bregmaceros spp. - all gadiform types (see Index), except *Merluccius productus* and Macrouridae, reexamined.

Ophidiiformes - this category did not exist originally and ophidiiform larvae were included in *Brosmophysis marginata*, Carapidae, *"Otophidium"*, "Zoarcidae", and "blenny"; identifications of *B. marginata* and Carapidae proved to be mostly correct and "Zoarcidae" to be a yet unidentified ophidiiform species; all *"Otophidium"* and "blenny" were reexamined and the former included *Ophidion scrippsae*, *Chilara taylori* and other ophidiiform taxa (moved to order); "blenny" contained *O. scrippsae*, *C. taylori*, and other ophidiiform taxa in addition to true blennioids.

Chilara taylori - larvae of this species were not identified in 1953 and may be in the unidentified fish larva category.

Ceratioidei - identifications of this group were inconsistent and specimens may be in the unidentified fish larva category.

Trachipteridae - tentative and sporadic identifications to genus were lumped to family.

Melamphaes spp. - all identifications ascribed to Melamphaidae were reexamined and assigned to genus (*Melamphaes, Poromitra*) or species (*Scopelogadus bispinosus*); larvae originally identified as *Melamphaes* spp. were not reexamined and this category may contain other melamphaid genera.

Cottidae - some samples may include specimens of *Scorpaenichthys marmoratus*, hexagrammids (e.g., *Oxylebius pictus, Zaniolepis* spp.), and some blennioids (e.g., *Hypsoblennius* spp.).

Oxylebius pictus - not identified originally; these specimens were identified during recent examination of other taxa.

Zaniolepis spp. - not identified originally; these specimens were identified during recent examination of other taxa.

Sebastes spp. - in addition to other scorpaenid genera, this taxon includes *Prionotus* spp., carangids, serranids, scombrids, and other spiny-headed shorefishes, particularly in samples south of line 120.

Sebastolobus spp. - this category is underrepresented and additional specimens may be in *Sebastes* spp.

Hypsoblennius spp. - some specimens remain in Cottidae.

Clinidae - some specimens remain in Cottidae or unidentified fish larva category.

Labridae - tentative and sporadic identifications to genus were lumped to family.

Chromis punctipinnis - no pomacentrids identified in 1953; may be included in *Sebastes* spp. or in unidentified fish larva category.

Apogonidae - all specimens checked.

Carangidae - all specimens checked and reassigned.

Gerreidae - larvae of this family and other shorefishes (e.g., Haemulidae, *Girella nigricans*, *Caulolatilus princeps*, Mullidae, Priacanthidae) were not identified and may be in the unidentified fish larva category or may be misidentified as *Sebastes* spp., Cottidae, etc.

Sciaenidae - this family is underrepresented and some specimens may be in the unidentified fish larva category or may have been misidentified as *Sebastes* spp.

Serranidae - this family is underrepresented and some specimens may have been misidentified as *Sebastes* spp. or may be in the unidentified fish larva category.

Scombridae - all larvae identified to this family or constituent taxa (except *Scomber japonicus*) were reexamined and reassigned; underrepresentation or absence of these taxa may be attributed to misidentification or they may be in the unidentified fish larva category.

Nomeidae - absence of this family attributed to misidentification or placement in unidentified fish larva category.

Pleuronectiformes - all available specimens of this category (originally called "flatfish") were examined and reidentified; residuals are small, poorly preserved specimens.

Bothidae - all specimens examined and reassigned; most assigned to various paralichthyid genera or to *Bothus* spp.

Citharichthys spp. - tentative and sporadic identifications to species were lumped to genus, which also includes *Etropus* spp. and some other flatfish taxa from original misidentifications.

Hippoglossina spp. - all specimens of this genus (originally called "pigmented bothid") were examined and assigned to *H. stomata*.

Paralichthys spp. - specimens of this genus were examined and most were assigned to *P. californicus* or *Xystreurys liolepis*.

Syacium ovale - all specimens examined (originally called "spiny-headed bothid").

Xystreurys liolepis - originally misidentified as *Paralichthys californicus*; all specimens reidentified.

Glyptocephalus zachirus - all specimens examined.

Hypsopsetta guttulata - specimens were originally identified as *Pleuronichthys* spp.

Microstomus pacificus - all specimens examined.

Pleuronichthys spp. - all larvae of this genus and constituent species were examined and assigned to species; residuals are small, poorly preserved specimens.

Psettichthys melanostictus - absence of this species may be explained by misidentification with other flatfish species (e.g., *Lyopsetta exilis*) which we did not reexamine systematically.

COMPUTER ENTRY AND EDITING

Each taxon on the original identification sheets was given a 3-digit code based on the list of codes in Haight et al. (1979). Taxon codes and counts from these sheets were keypunched by cruise and station, along with pertinent station and tow data and entered into the VAX 11/780 computer at the University of California, San Diego Computing Center. After entries were completed for an entire year, print-out listings of taxa and counts on each station were compared with the original data sheets to eliminate keypunch errors. Next, data in the file were cross-checked with data on an existing file which contained: station and tow data; numbers of eggs of sardine, anchovy, and saury (*Cololabis saira*); numbers of larvae of sardine, anchovy, hake, jack mackerel, and Pacific mackerel; total number of fish eggs; and total number of fish larvae.

Discrepancies in ichthyoplankton data in these two files were corrected by inspecting original records from the sorting laboratory, the original ichthyoplankton identification sheets, and the samples themselves. Station and tow data discrepancies between the two files were corrected by reviewing ships' logs and deck tow sheets, original records from the sorting laboratory, cruise announcements, publications, header information on the ichthyoplankton identification sheets, and station plots generated for each cruise. Eventually all station and tow data were checked by comparing these sources.

The corrected ichthyoplankton data base was then examined statistically and outliers were found and checked as above. Distributional plots were then prepared for each taxon and these were checked by reviewing the data sources mentioned above and by examining archived specimens. A listing of each taxon by station (Table 4) was produced, which became the primary document for subsequent checks. Misidentifications found in geographic outlier checks and other misidentifications and data problems discovered in the course of examining archived samples resulted in several iterations of Table 4. Finally, totals in Table 4 were checked against annual summaries of incidence and abundance (Tables 2 and 3). Ecological analyses of the data (Moser et al., 1987) were conducted concurrently with editing procedures and provided cross-checks that allowed correction of errors.

SPECIES SUMMARY

Anchovy, *Engraulis mordax*, constituted 31% of all fish larvae collected in 1953, and were more than twice as abundant as the second most numerous species, hake, *Merluccius productus*,

which constituted 13% of the total larvae. These two species ranked second and sixth in number of occurrences. *Leuroglossus stilbius*, a deepsea smelt, ranked third in abundance and occurrence, comprising 11% of total larvae. *Sebastes* spp., a composite of many species of rockfish and possibly a few misidentified shore fishes, ranked fourth with 10% of the total larvae, although first in number of occurrences. The lanternfish, *Stenobrachius leucopsarus*, and the sardine, *Sardinops sagax*, ranked 5th and 6th in numbers of larvae, each with nearly 5% of total larvae, and 8th and 15th in number of occurrences. *Triphoturus mexicanus*, another lanternfish, ranked 7th in numbers and 4th in occurrences, and the next taxon in larvae number, *Citharichthys* spp., including larvae of all species of sanddabs, ranked 8th in abundance and 5th in occurrences. Ninth and 10th in both abundance and occurrence were the gonostomatid species, *Vinciguerria lucetia*, and the jack mackerel, *Trachurus symmetricus*. The top 10 taxa contributed 89% of all larvae collected in 1953, and consisted of 4 midwater species, 3 pelagic coastal species and 3 demersal coastal species and genera. The remaining 11% is represented by 96 taxa plus the unidentified and disintegrated categories.

EXPLANATION OF TABLES

Table 1 - This table lists by cruise the pertinent station and tow data for 1953, the volume of water filtered and standard haul factor for each tow, the percent of sample sorted, and the total numbers of fish eggs and larvae. CalCOFI cruises are designated by four digits; the first two indicate the year and the second two the month. Within each cruise the data are listed in order of increasing line and station number (southerly and seaward directions); the order of station occupancy is shown on the station charts (Figures 2-13). Stations are designated by two groups of digits; the first set indicates the line and decimal fraction and the second set indicates the station on the line. Time is listed as Pacific Standard Time at the start of each tow in 24-hour designation. Methods for determining tow depth, volume of water strained, standard haul factor, and percent sorted were described in the methods section. The values for total fish eggs and larvae represent raw counts (unadjusted for percent sorted or standard haul factor). Ship codes are as follows: SB, *Spencer F. Baird*; CR, *Crest*; HO, *Horizon*; PT, *Paolina T*; ES, *E. W. Scripps*; YE, *Yellowfin*.

Table 2 - This table lists pooled occurrences of all larval fish taxa taken during 1953 in ranked order.

Table 3 - This table lists pooled counts of all larval fish taxa taken during 1953 in ranked order. Numbers are adjusted for percent sorted and standard haul factors.

Table 4 - This table gives numbers of fish larvae for each taxon, listed by station and calendar month in which the tow was taken. Counts are adjusted for percent of sample sorted and standard haul factor. Average values are given for stations occupied more than once during a month. Multiple occupancies occurred when a station was occupied more than once in a calendar month; in some cases multiple occupancies resulted from separate cruises. See Table 1 for station and tow data and Table 6 for listing of stations with more than one occupancy during a month. In Table 4, the orders are listed in "phylogenetic" sequence modified from Nelson (1984). Subtaxa within each order are listed alphabetically. Page numbers for each taxon are given in the index at the end of the report.

Table 5 - This table is a summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1951 to 1960. Taxa are listed in the same order as in Table 4.

Table 6 - List of stations which were occupied more than once in one month during 1953.

ACKNOWLEDGMENTS

Elbert Ahlstrom, David Kramer, Robert Counts, and probably others originally identified larvae from CalCOFI cruises of 1953. Douglas Hammond and Ronald Whyte coded each larval fish taxon or type and Rita Ford entered them into the computer. Debby Snow efficiently assisted in all aspects of data editing and retrieval. Cindy Meyer, Larry Zins, and James Ryan provided programming assistance. Dorothy Roll designed the CalCOFI data acquisition system and provided data processing support. Ken Raymond, Roy Allen, and Henry Orr helped with graphics and production of the report. Lorraine Prescott and Diane Forsythe prepared the manuscript for printing. Paul Smith determined statistical outliers, provided assistance during geographical outlier checks and offered helpful suggestions throughout the project. Izadore Barrett, Director of the Southwest Fisheries Center and Reuben Lasker, Chief, Coastal Fisheries Resources Division, SWFC, provided the support critical to the completion of the project. James Thrailkill planned CalCOFI surveys and supervised cruises, data handling, and plankton sorting from 1949 to 1986 and is largely responsible for the high quality of these operations. Without the vision and direction of Elbert Ahlstrom and Elton Sette and the dedicated efforts of the many people who collected, processed, and analyzed the samples, this data base would not exist.

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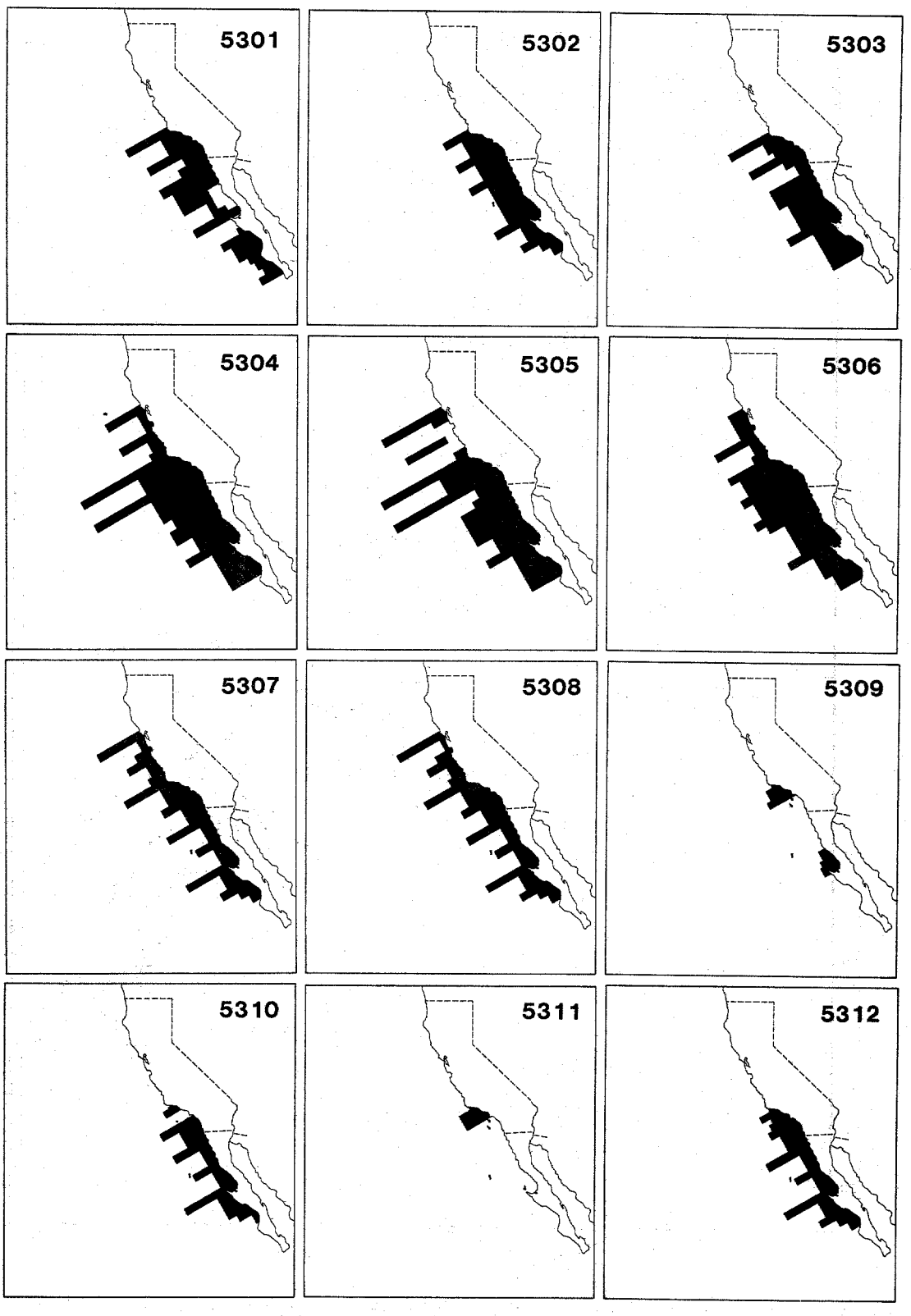

Figure 1. Composite arrangement of diagrammatic charts showing areas sampled on each CalCOFI cruise during 1953.

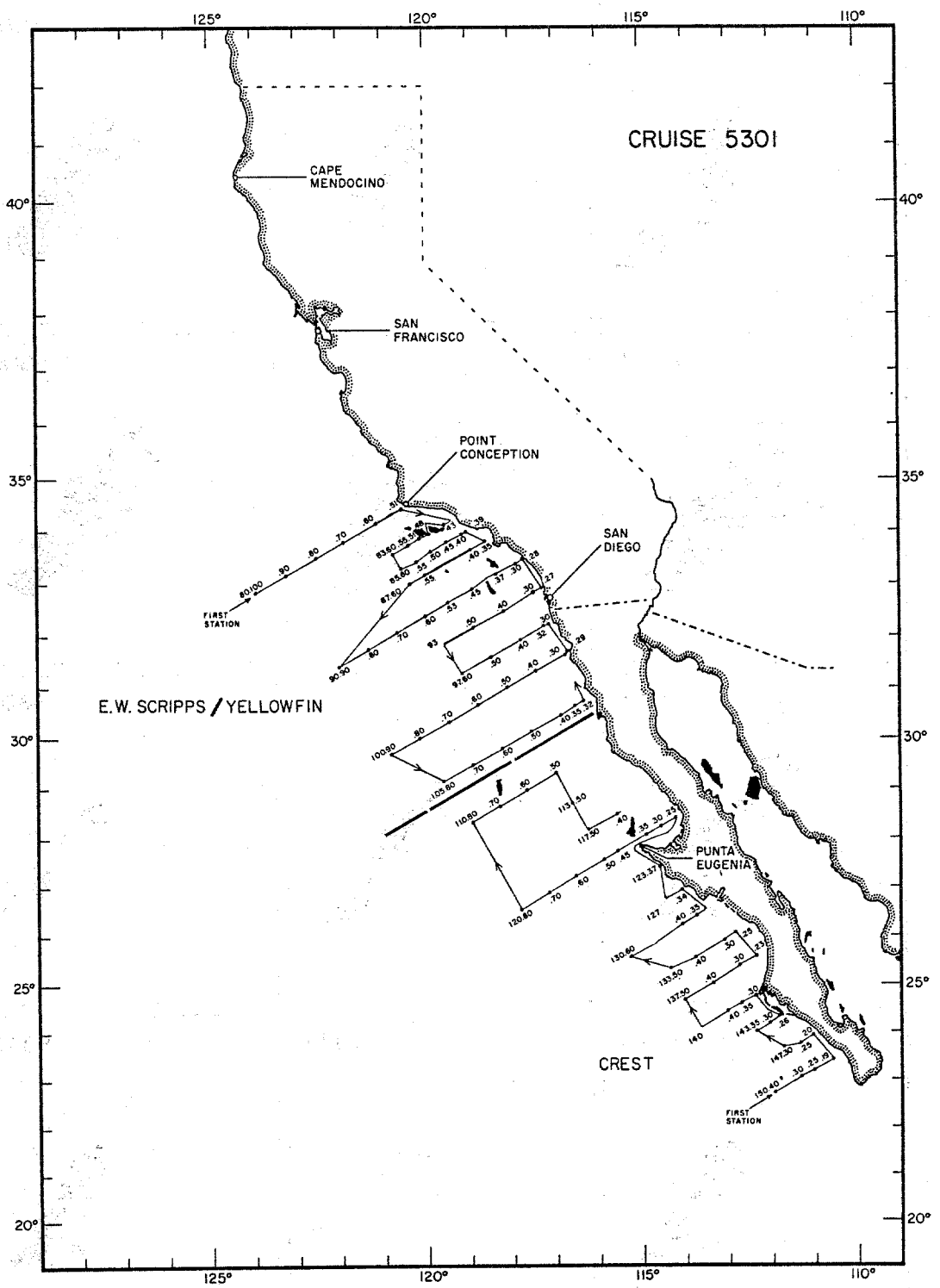

Figure 2. Station pattern for CalCOFI Cruise 5301 showing tracks for each vessel. Stations with plankton tows are indicated by a dot. Modified from charts in Reid et al. (1965) to include only those stations listed in Table 1 of this report.

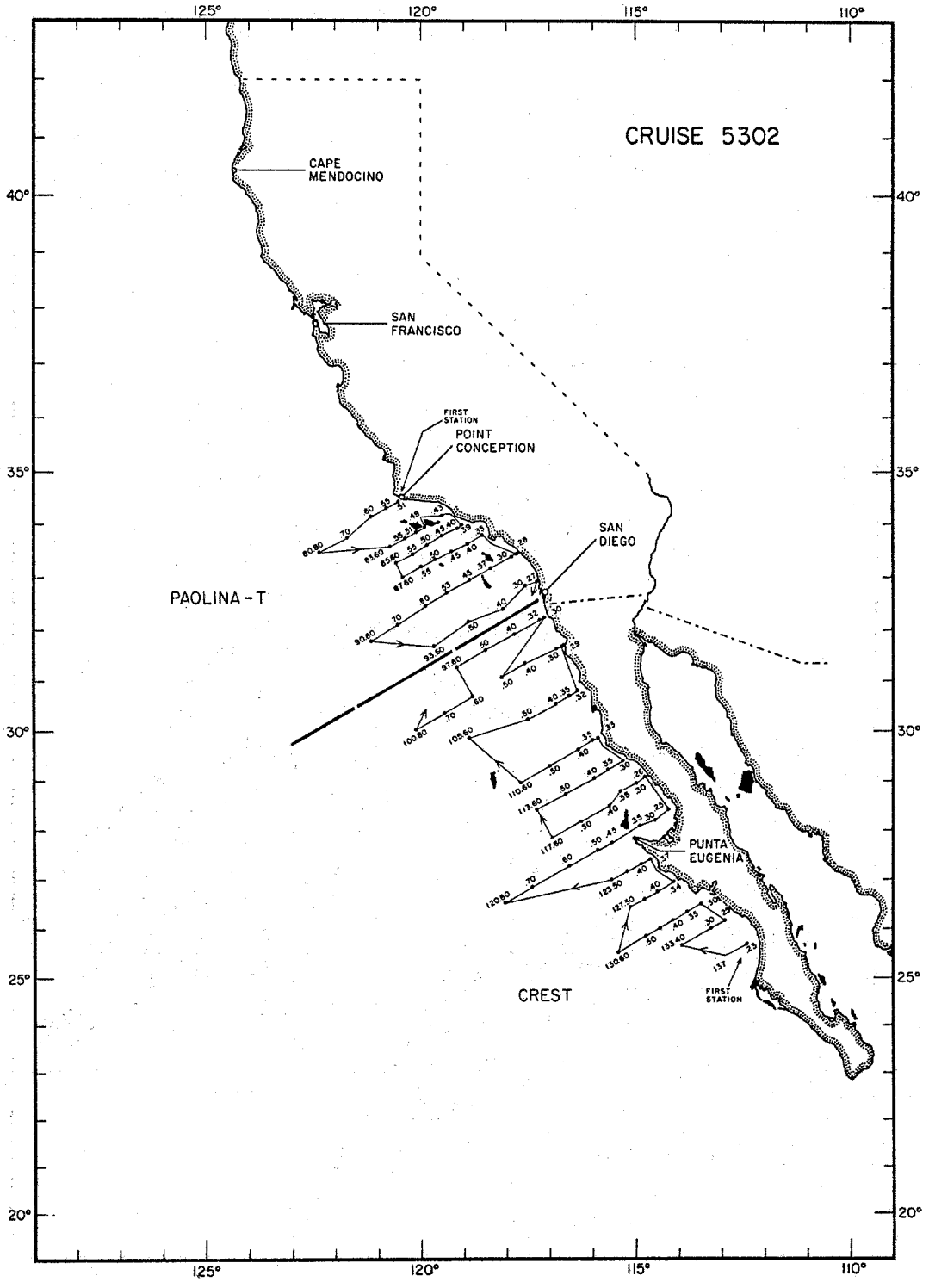

Figure 3. Station pattern for CalCOFI Cruise 5302. Symbols as in Figure 2.

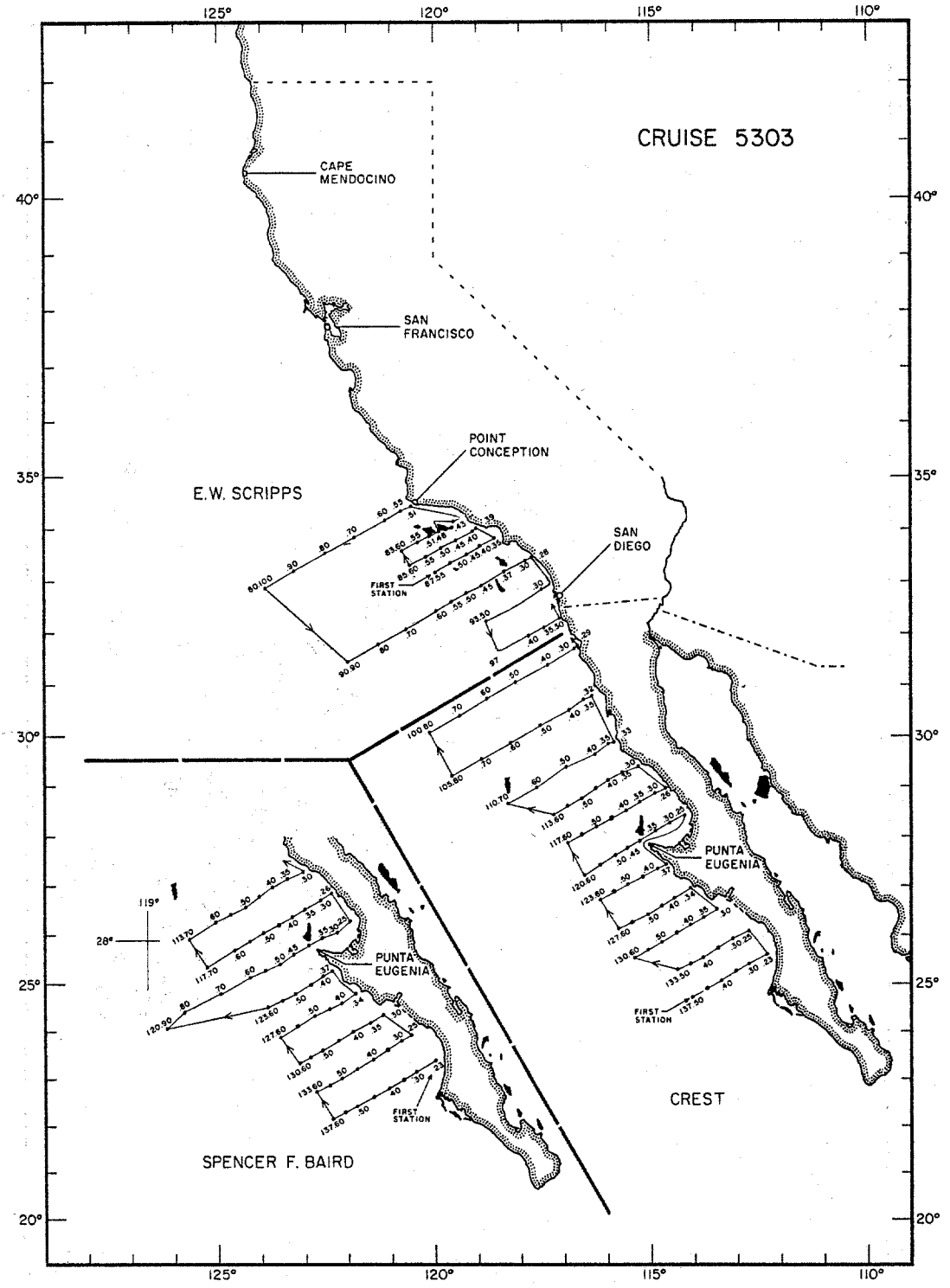

Figure 4. Station pattern for CalCOFI Cruise 5303. Symbols as in Figure 2.

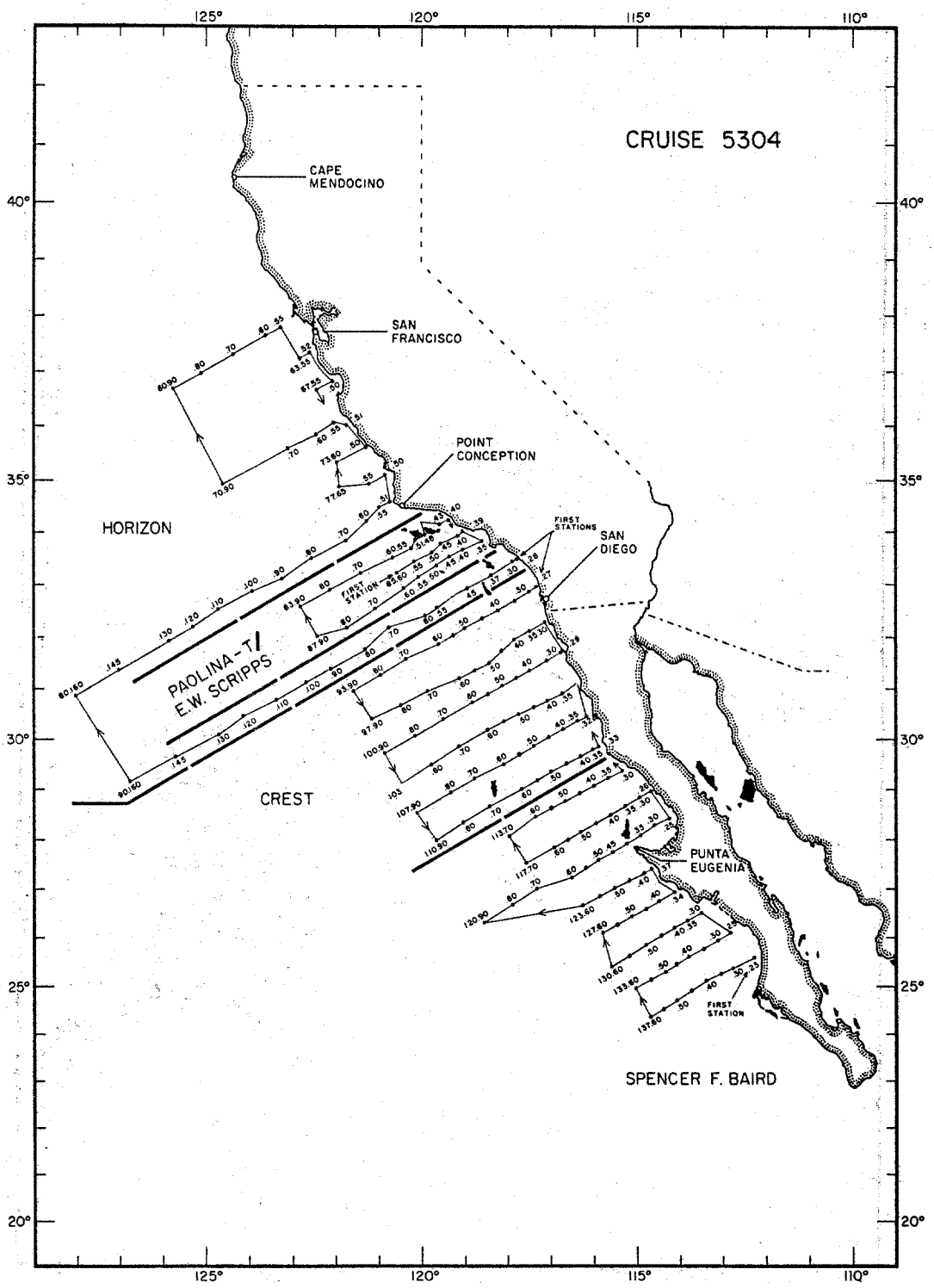

Figure 5. Station pattern for CalCOFI Cruise 5304. Symbols as in Figure 2.

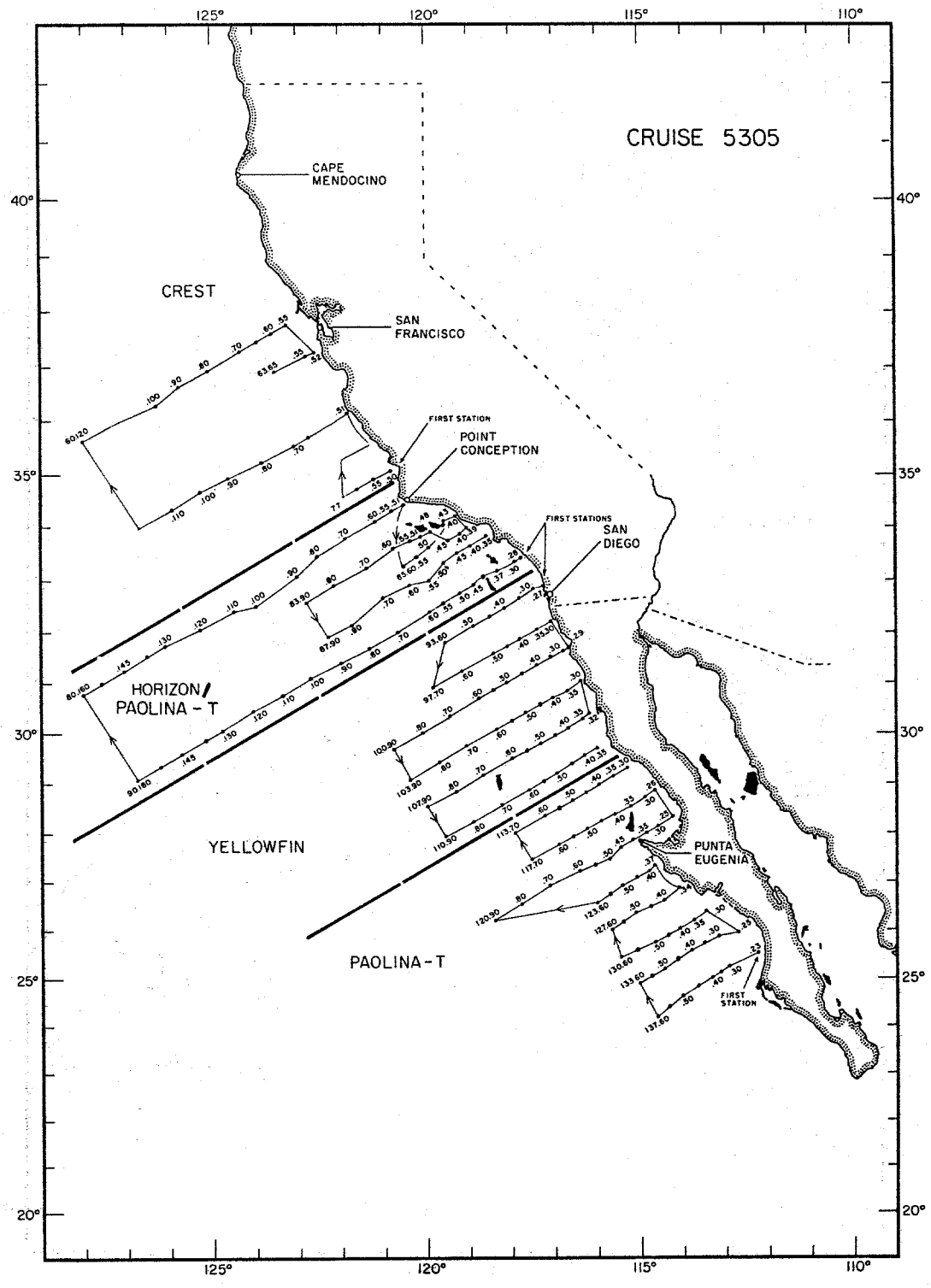

Figure 6. Station pattern for CalCOFI Cruise 5305. Symbols as in Figure 2.

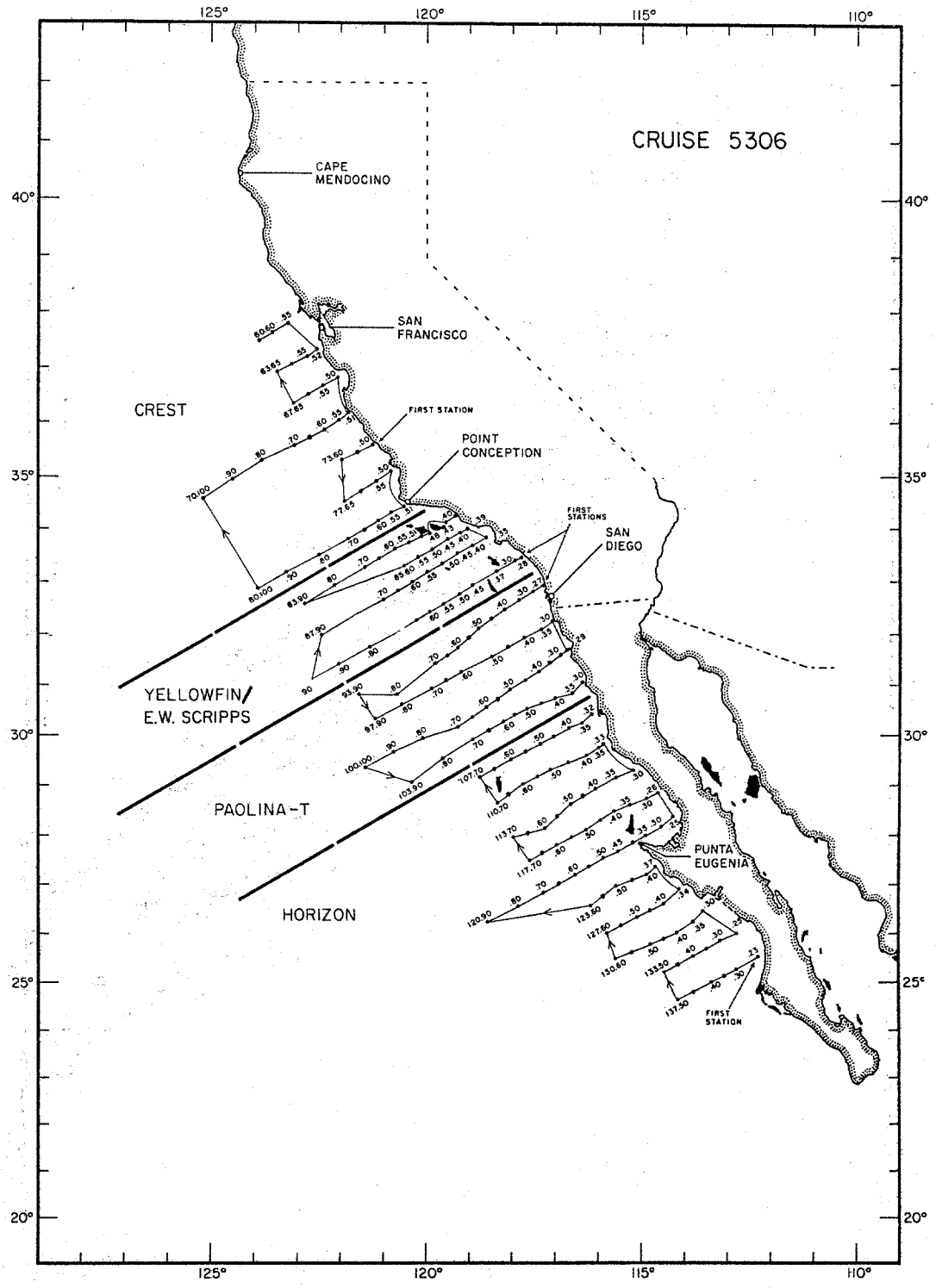

Figure 7. Station pattern for CalCOFI Cruise 5306. Symbols as in Figure 2.

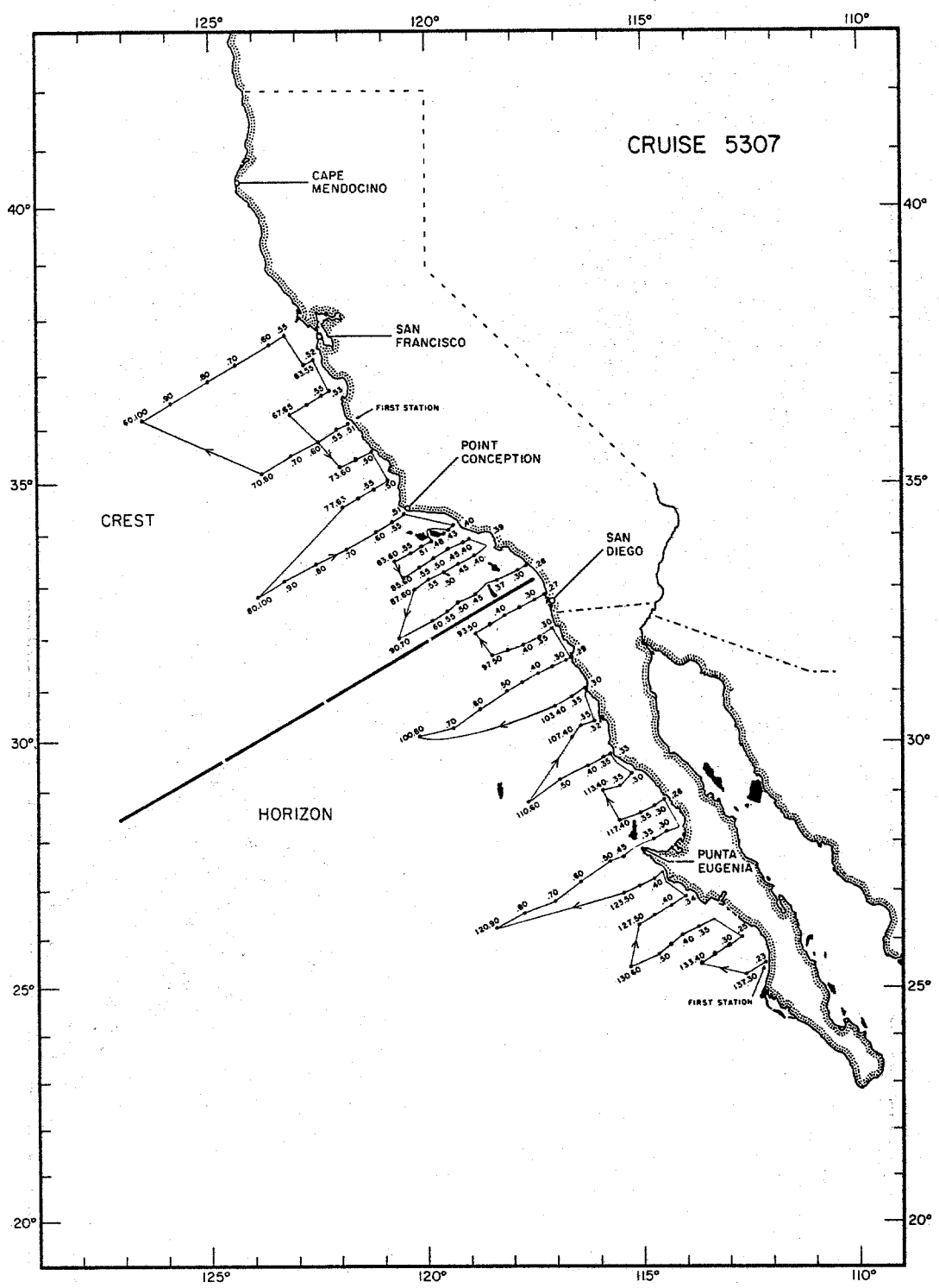

Figure 8. Station pattern for CalCOFI Cruise 5307. Symbols as in Figure 2.

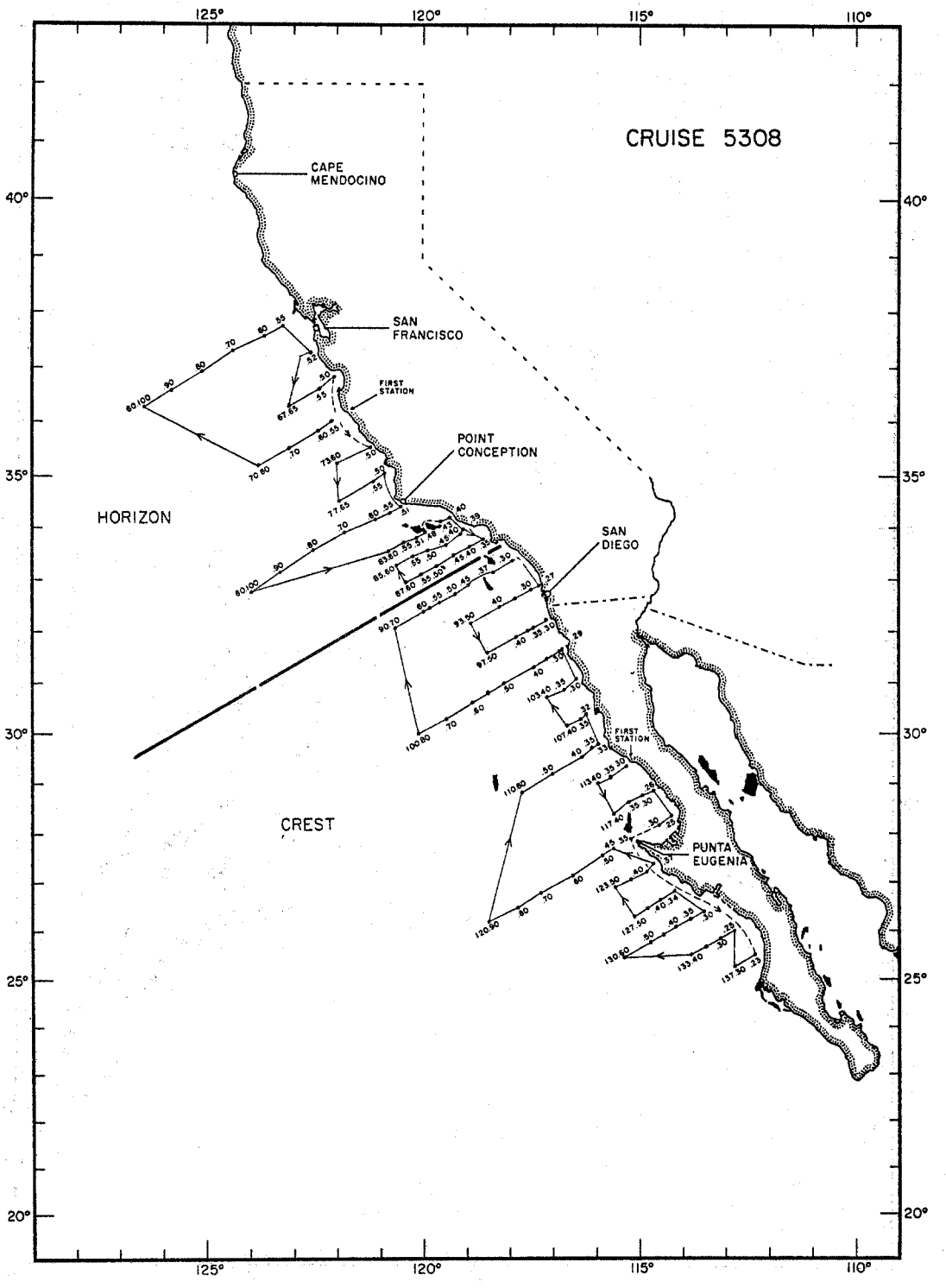

Figure 9. Station pattern for CalCOFI Cruise 5308. Symbols as in Figure 2.

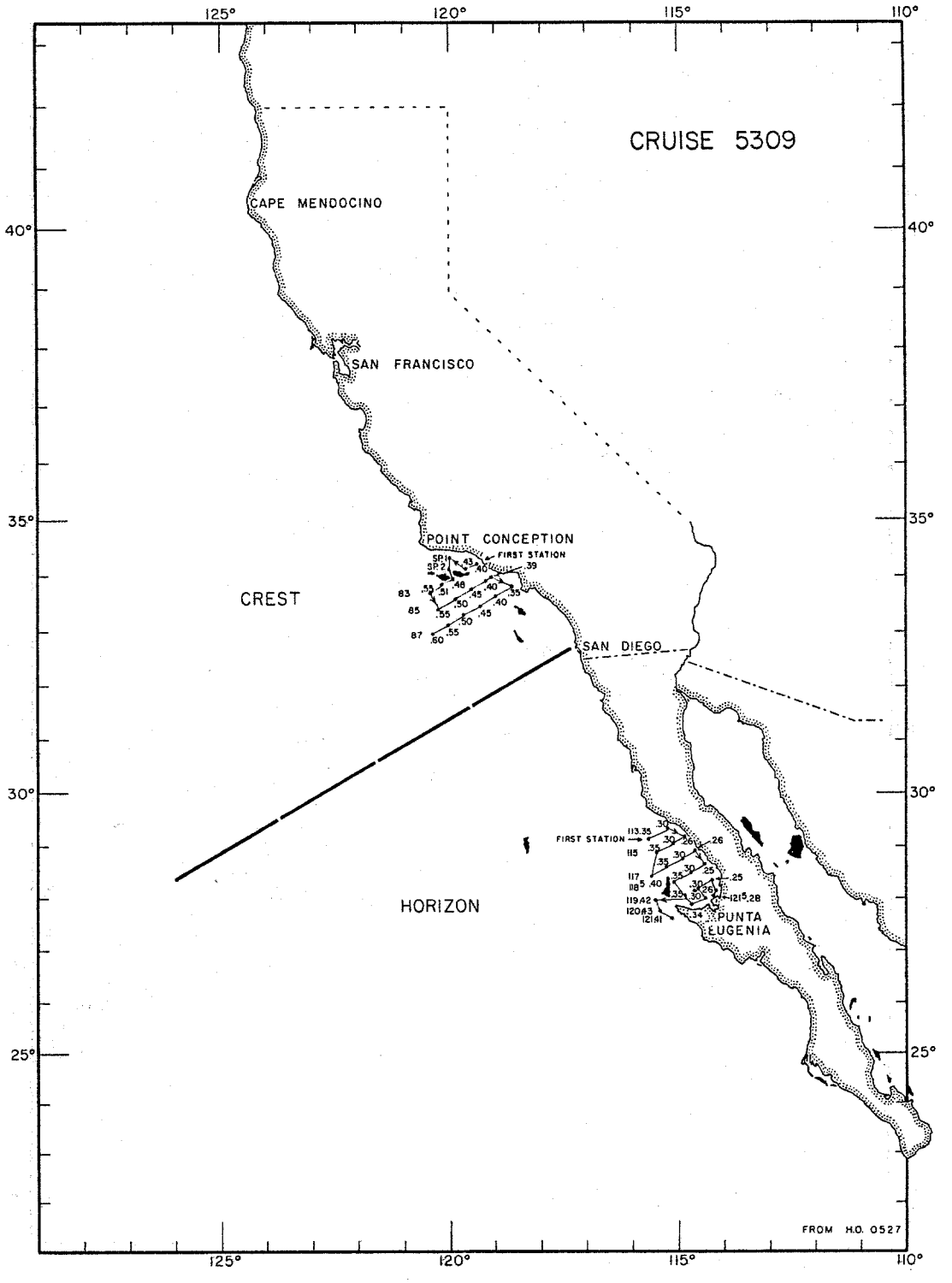

Figure 10. Station pattern for CalCOFI Cruise 5309. Symbols as in Figure 2.

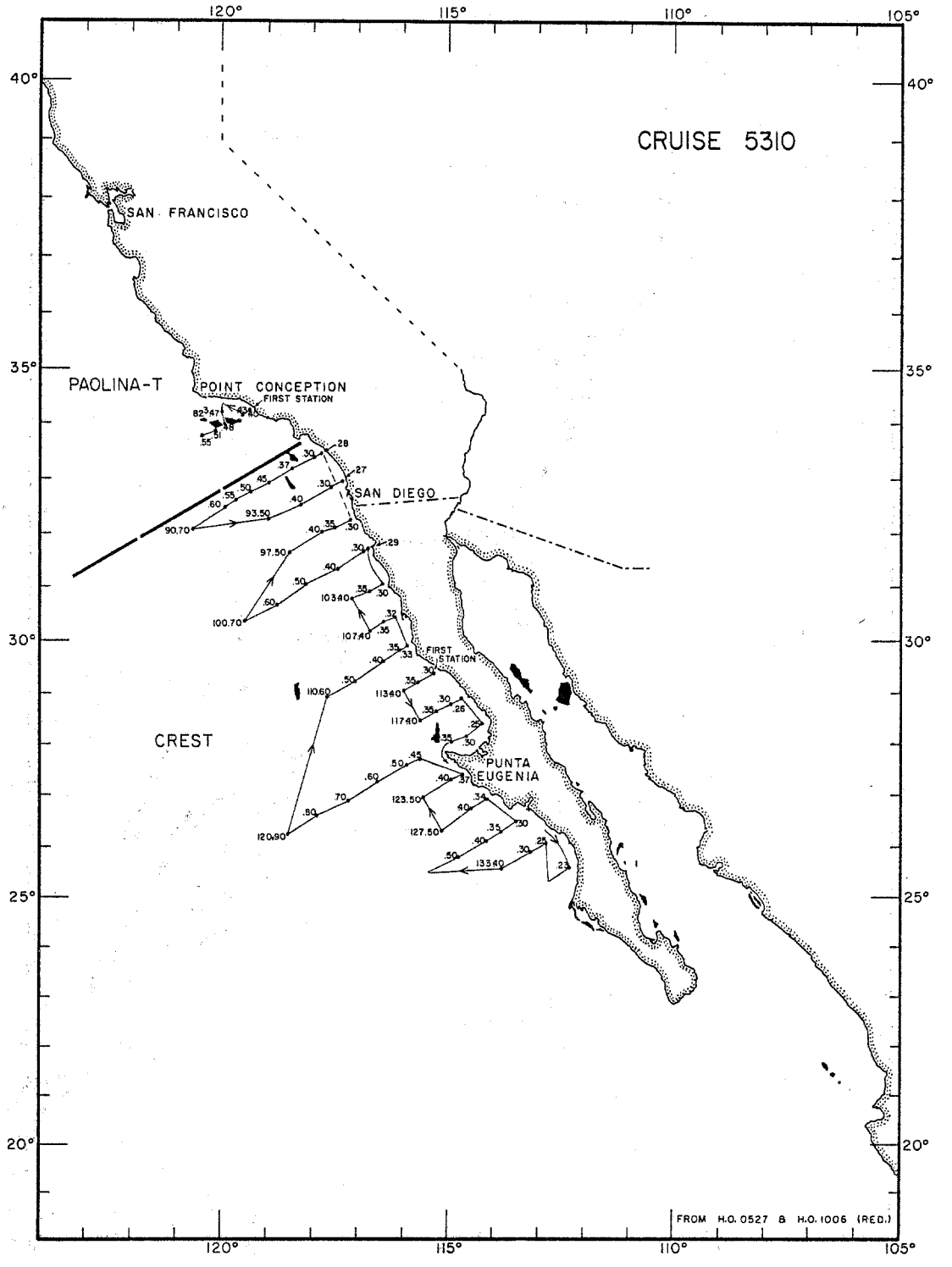

Figure 11. Station pattern for CalCOFI Cruise 5310. Symbols as in Figure 2.

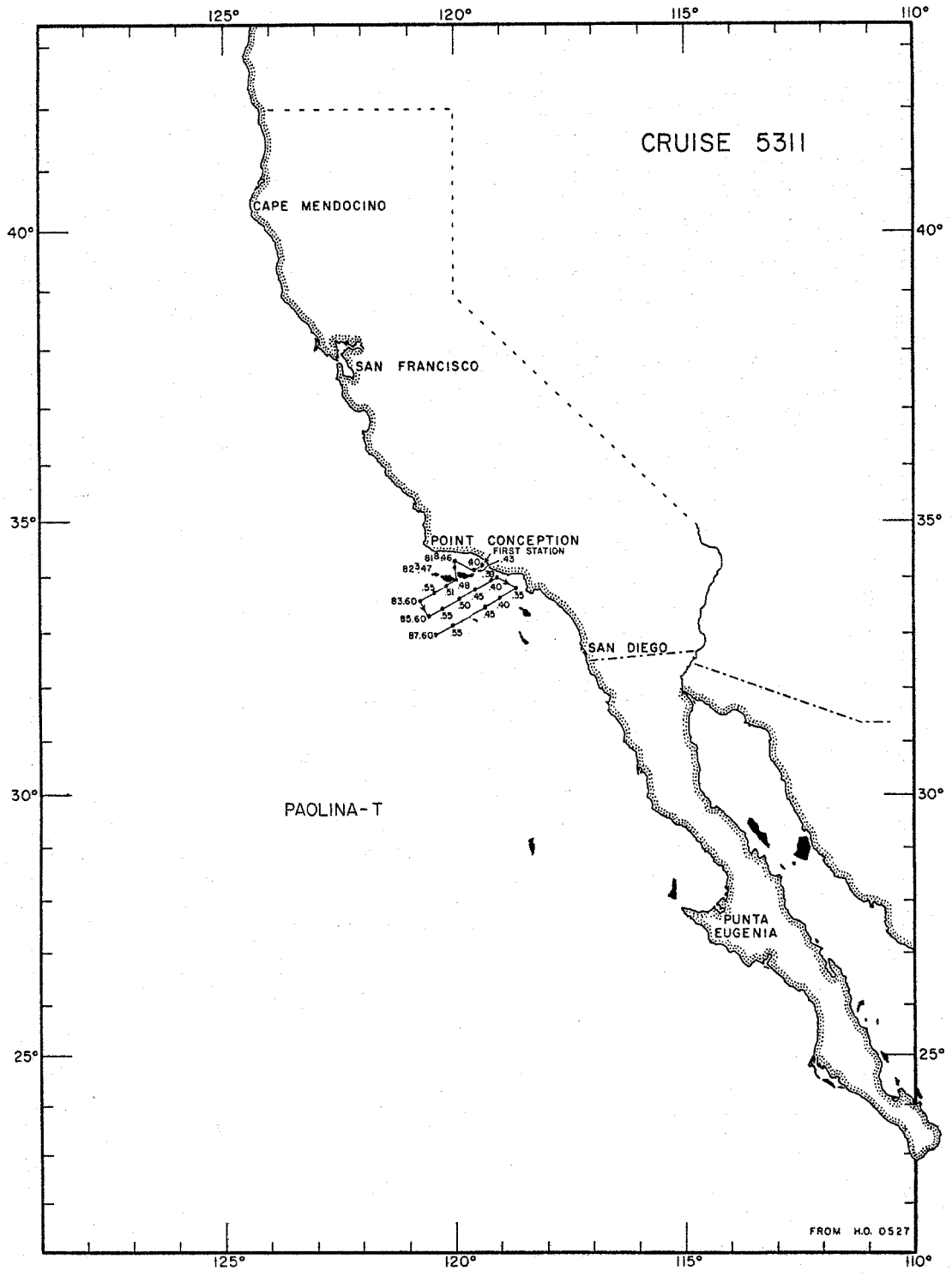

Figure 12. Station pattern for CalCOFI Cruise 5311. Symbols as in Figure 2.

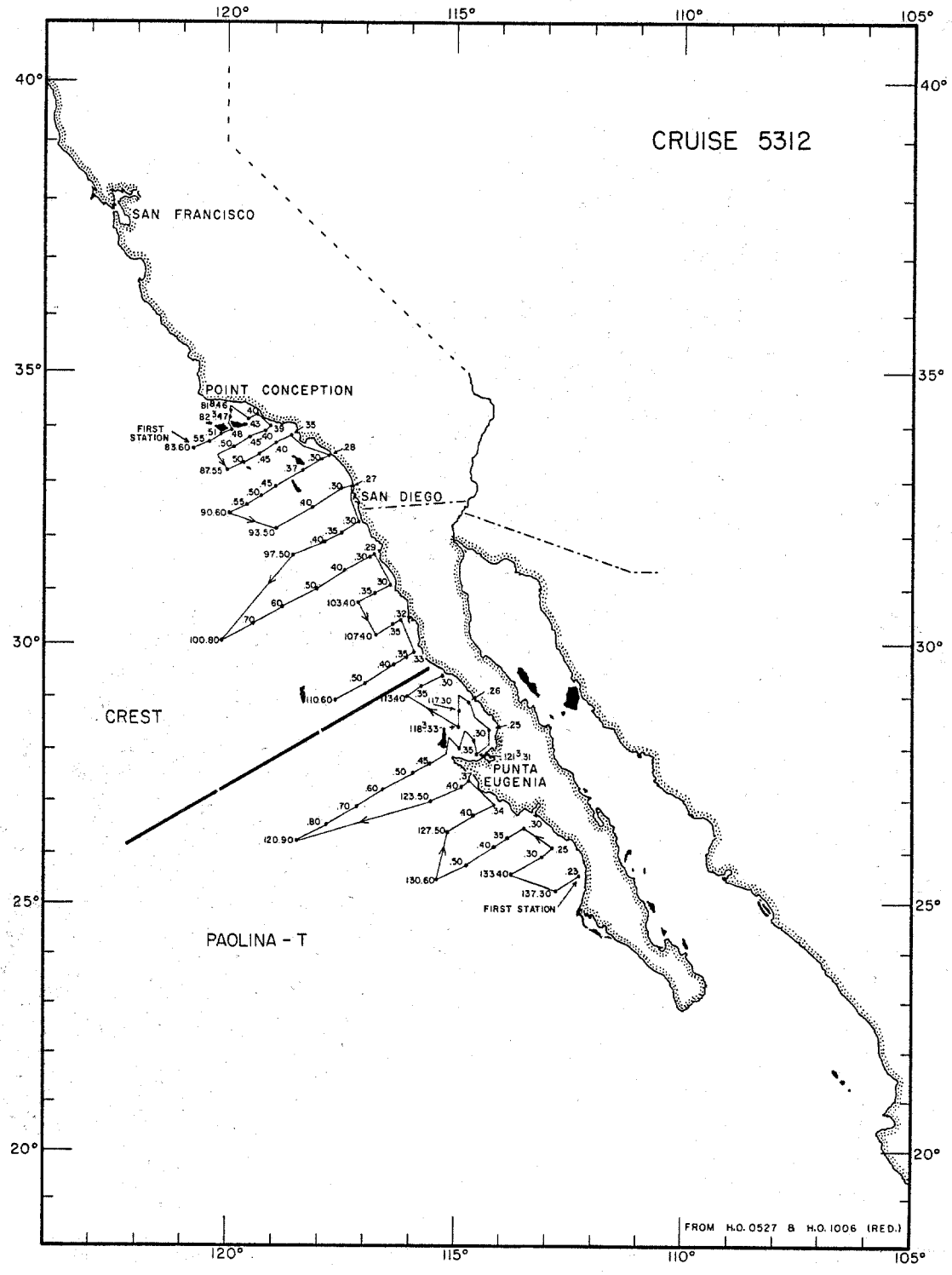

Figure 13. Station pattern for CalCOFI Cruise 5312. Symbols as in Figure 2.

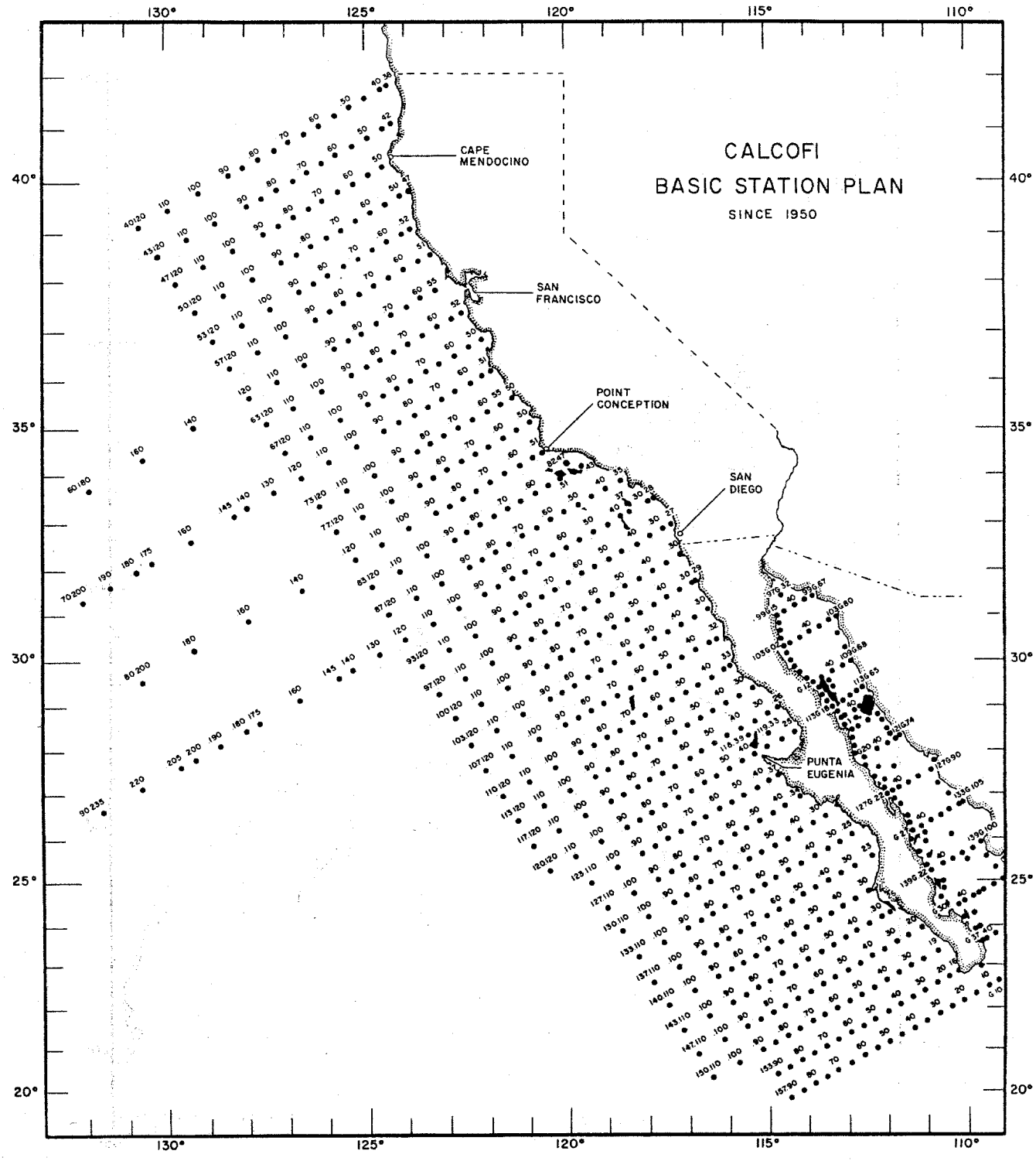

Figure 14. The basic station plan for CalCOFI cruises from 1950 to the present.

TABLE 1. Station and plankton tow data for CalCOFI cruises in 1953. Counts for fish eggs and larvae are not adjusted for standard haul factor or percent of sample sorted.

CalCOFI Cruise 5301

Line	Station	Lat.(N) deg.	Lat.(N) min.	Long.(W) deg.	Long.(W) min.	Ship Code	Tow Date yr.	Tow Date mo.	Tow Date day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
80.0	51.0	34	26.5	120	32.5	YE	53	01	10	0907	61	311	1.96	100.0	193	2418
80.0	60.0	34	09.0	121	09.0	YE	53	01	10	0321	141	462	3.05	50.0	75	707
80.0	70.0	33	47.0	121	54.4	YE	53	01	09	2049	138	488	2.83	100.0	40	56
80.0	80.0	33	29.0	122	32.0	YE	53	01	09	1350	134	550	2.43	100.0	11	49
80.0	90.0	33	09.0	123	14.0	YE	53	01	09	0746	125	552	2.26	100.0	6	8
80.0	100.0	32	49.0	123	55.4	YE	53	01	09	0216	123	549	2.24	100.0	12	5
83.0	43.0	34	08.0	119	34.0	YE	53	01	11	2336	129	594	2.17	50.0	13	89
83.0	48.0	33	58.3	119	55.0	YE	53	01	12	0358	44	314	1.41	100.0	27	134
83.0	51.0	33	52.0	120	08.3	YE	53	01	12	0625	134	488	2.75	100.0	338	523
83.0	55.0	33	44.0	120	24.5	YE	53	01	12	0931	112	399	2.82	50.0	236	417
83.0	60.0	33	34.0	120	45.0	YE	53	01	12	1256	142	464	3.05	100.0	117	511
85.0	39.0	34	00.0	119	04.0	YE	53	01	13	1248	67	274	2.45	50.0	282	551
85.0	40.0	33	57.0	119	10.5	YE	53	01	13	1041	140	484	2.90	100.0	316	1524
85.0	40.0	33	57.0	119	10.5	ES	53	01	17	0816	146	506	2.88	50.0	99	254
85.0	45.0	33	47.0	119	31.3	YE	53	01	13	0626	127	475	2.68	25.0	29	511
85.0	45.0	33	47.0	119	31.2	ES	53	01	17	1251	147	494	2.98	25.0	145	259
85.0	50.0	33	37.0	119	52.0	YE	53	01	13	0135	143	459	3.13	100.0	226	542
85.0	55.0	33	25.2	120	11.7	YE	53	01	12	2056	144	426	3.38	100.0	72	885
85.0	60.0	33	17.0	120	33.5	YE	53	01	12	1616	143	450	3.17	100.0	5	194
87.0	35.0	33	50.0	118	37.5	YE	53	01	13	1601	132	483	2.73	100.0	288	1032
87.0	40.0	33	40.0	118	58.5	YE	53	01	13	1915	138	505	2.73	50.0	131	1214
87.0	55.0	33	10.0	120	00.5	YE	53	01	14	0831	125	508	2.46	100.0	58	225
87.0	60.0	33	00.0	120	21.5	YE	53	01	14	1226	140	455	3.09	100.0	4	85
90.0	28.0	33	28.5	117	46.7	YE	53	01	17	0308	59	288	2.05	100.0	270	1302
90.0	30.0	33	24.5	117	55.0	YE	53	01	17	0125	137	548	2.49	50.0	28	1441
90.0	37.0	33	11.0	118	23.5	YE	53	01	16	2116	130	527	2.46	100.0	9	1325
90.0	45.0	32	54.5	118	56.0	YE	53	01	16	1609	146	514	2.85	100.0	17	445
90.0	53.0	32	38.5	119	29.0	YE	53	01	16	1055	149	470	3.18	100.0	22	489
90.0	60.0	32	23.0	119	59.0	YE	53	01	16	0721	142	506	2.80	100.0	13	376
90.0	70.0	32	04.5	120	39.0	YE	53	01	16	0011	148	467	3.16	100.0	1	47
90.0	80.0	31	45.0	121	19.0	YE	53	01	15	1541	158	429	3.69	100.0	3	5
90.0	90.0	31	25.0	121	59.0	YE	53	01	15	0714	136	534	2.54	100.0	4	6
93.0	27.0	32	56.0	117	19.2	YE	53	01	17	0756	118	524	2.25	100.0	36	136
93.0	30.0	32	50.0	117	31.5	YE	53	01	17	1016	146	526	2.78	100.0	57	518
93.0	40.0	32	30.0	118	12.5	YE	53	01	17	1535	139	508	2.75	100.0	9	797
93.0	50.0	32	10.0	118	53.5	YE	53	01	17	2136	151	434	3.47	100.0	17	214
97.0	30.0	32	15.4	117	08.8	YE	53	01	19	0203	43	268	1.62	100.0	226	162
97.0	32.0	32	11.5	117	17.0	YE	53	01	19	0026	152	449	3.38	100.0	22	488
97.0	40.0	31	55.5	117	50.0	YE	53	01	18	1946	143	472	3.04	100.0	30	101
97.0	50.0	31	35.5	118	30.5	YE	53	01	18	1416	143	451	3.18	100.0	41	200
97.0	60.0	31	15.5	119	10.5	YE	53	01	18	0906	156	435	3.59	100.0	2	15
100.0	29.0	31	42.2	116	43.4	YE	53	01	19	0628	68	257	2.64	100.0	54	40
100.0	30.0	31	40.5	116	46.5	YE	53	01	19	0735	142	477	2.98	100.0	111	33
100.0	40.0	31	21.0	117	27.0	YE	53	01	19	1320	145	532	2.73	100.0	5	35

TABLE 1. (cont.)

CalCOFI Cruise 5301

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
100.0	50.0	31 01.0	118 07.0	YE	53 01 19	1926	146	462	3.15	100.0	14	33
100.0	60.0	30 41.0	118 47.5	YE	53 01 20	0126	139	478	2.92	100.0	3	3
100.0	70.0	30 20.5	119 27.0	YE	53 01 20	0736	152	431	3.53	100.0	12	17
100.0	80.0	30 01.0	120 07.0	YE	53 01 20	1326	141	473	2.98	100.0	6	24
100.0	90.0	29 40.5	120 47.0	YE	53 01 20	1756	145	475	3.06	100.0	56	91
105.0	32.0	30 45.0	116 21.0	YE	53 01 22	0832	64	302	2.12	100.0	90	437
105.0	35.0	30 39.0	116 33.0	YE	53 01 22	0655	118	555	2.12	100.0	10	78
105.0	40.0	30 28.5	116 54.0	YE	53 01 22	0336	154	445	3.47	100.0	8	3
105.0	50.0	30 08.5	117 34.5	YE	53 01 21	2205	146	434	3.36	100.0	8	10
105.0	60.0	29 48.5	118 14.5	YE	53 01 21	1536	175	403	4.35	100.0	6	14
105.0	70.0	29 29.0	118 54.0	YE	53 01 21	0856	150	398	3.78	100.0	10	10
105.0	80.0	29 09.0	119 34.0	YE	53 01 21	0206	173	374	4.63	100.0	16	26
110.0	50.0	29 17.0	116 59.0	CR	53 01 20	0436	144	511	2.82	100.0	15	3
110.0	60.0	28 56.0	117 39.0	CR	53 01 19	2236	144	470	3.06	100.0	5	0
110.0	70.0	28 37.0	118 18.0	CR	53 01 19	1706	119	573	2.08	100.0	6	9
110.0	80.0	28 17.0	118 55.0	CR	53 01 19	1136	127	543	2.33	100.0	9	41
113.0	50.0	28 42.0	116 37.0	CR	53 01 20	0911	139	499	2.79	100.0	7	29
117.0	40.0	28 28.0	115 35.0	CR	53 01 20	2001	141	449	3.14	100.0	92	78
117.0	50.0	28 08.0	116 15.0	CR	53 01 20	1406	137	496	2.76	100.0	14	85
120.0	25.0	28 23.0	114 15.0	CR	53 01 17	1428	48	247	1.96	100.0	10	66
120.0	30.0	28 13.0	114 34.0	CR	53 01 17	1708	75	266	2.82	100.0	22	27
120.0	35.0	28 03.0	114 54.0	CR	53 01 17	1943	67	295	2.26	100.0	41	189
120.0	45.0	27 43.0	115 33.0	CR	53 01 18	0126	137	536	2.56	100.0	4270	210
120.0	50.0	27 33.0	115 53.0	CR	53 01 18	0501	138	521	2.65	100.0	15	85
120.0	60.0	27 13.0	116 32.0	CR	53 01 18	1041	132	544	2.43	100.0	4	16
120.0	70.0	26 52.0	117 11.0	CR	53 01 18	1621	132	548	2.42	100.0	1	5
120.0	80.0	26 32.0	117 48.0	CR	53 01 18	2126	136	513	2.66	100.0	15	100
123.0	37.0	27 24.0	114 36.0	CR	53 01 15	1058	34	150	2.25	100.0	113	504
127.0	34.0	26 55.0	114 06.0	CR	53 01 15	0013	38	249	1.51	100.0	58	32
130.0	35.0	26 24.5	113 46.0	CR	53 01 14	0452	100	450	2.23	100.0	36	164
130.0	40.0	26 13.5	114 05.5	CR	53 01 14	0220	137	534	2.57	100.0	68	22
130.0	60.0	25 33.0	115 16.0	CR	53 01 13	1506	155	508	3.06	100.0	6	28
133.0	25.0	26 03.0	112 51.0	CR	53 01 12	2018	66	315	2.09	100.0	15	48
133.0	30.0	25 54.0	113 07.0	CR	53 01 12	2226	127	554	2.28	100.0	46	58
133.0	40.0	25 34.0	113 46.0	CR	53 01 13	0306	132	597	2.20	100.0	13	45
133.0	50.0	25 19.0	114 21.0	CR	53 01 13	0806	132	554	2.38	100.0	13	32
137.0	23.0	25 35.0	112 23.0	CR	53 01 12	1553	56	267	2.09	100.0	267	67
137.0	30.0	25 23.0	112 47.0	CR	53 01 12	1251	129	585	2.21	100.0	38	2
137.0	40.0	25 00.0	113 24.0	CR	53 01 12	0756	131	516	2.53	100.0	5	25
137.0	50.0	24 40.0	114 02.0	CR	53 01 12	0311	134	586	2.29	100.0	8	23
140.0	30.0	24 45.0	112 24.0	CR	53 01 11	1048	57	288	1.99	100.0	26	69
140.0	35.0	24 35.0	112 43.0	CR	53 01 11	1356	134	499	2.69	100.0	63	154
140.0	40.0	24 26.0	113 02.0	CR	53 01 11	1701	131	493	2.66	100.0	22	37
143.0	26.0	24 20.0	111 50.0	CR	53 01 11	0633	69	281	2.47	100.0	445	130
143.0	30.0	24 11.0	112 03.0	CR	53 01 11	0416	133	500	2.66	25.0	719	7

TABLE 1. (cont.)

CalCOFI Cruise 5301

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
143.0	35.0	24	01.0	112	22.0	CR	53	01	11	0126	121	526	2.30	100.0	38	480
147.0	20.0	23	56.0	111	03.0	CR	53	01	10	1303	61	306	1.99	100.0	15	44
147.0	25.0	23	45.0	111	22.0	CR	53	01	10	1606	140	534	2.62	100.0	6	209
147.0	30.0	23	39.0	111	45.0	CR	53	01	10	2006	119	503	2.37	100.0	35	283
150.0	19.0	23	26.0	110	37.0	CR	53	01	10	0914	30	185	1.63	100.0	3	16
150.0	25.0	23	12.0	111	02.0	CR	53	01	10	0556	139	523	2.66	100.0	24	6
150.0	30.0	23	02.0	111	20.0	CR	53	01	10	0221	142	521	2.72	100.0	96	5
150.0	40.0	22	43.0	111	57.0	CR	53	01	09	2021	130	537	2.42	100.0	16	117

TABLE 1. (cont.)

CalCOFI Cruise 5302

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
80.0	51.0	34 26.2	120 32.3	PT	53 02 04	1328	56	330	1.71	100.0	67	179
80.0	55.0	34 18.5	120 48.6	PT	53 02 04	1715	134	532	2.51	100.0	122	744
80.0	60.0	34 08.4	121 12.2	PT	53 02 04	2150	128	442	2.90	50.0	180	347
80.0	70.0	33 44.0	121 43.0	PT	53 02 05	0406	114	528	2.16	100.0	2497	50
80.0	80.0	33 27.0	122 22.5	PT	53 02 05	1136	161	407	3.94	100.0	40	36
83.0	43.0	34 09.5	119 31.8	PT	53 02 07	1756	129	499	2.59	100.0	550	490
83.0	48.0	33 58.2	119 55.0	PT	53 02 07	1258	70	391	1.79	100.0	285	298
83.0	51.0	33 51.7	120 08.0	PT	53 02 07	1057	75	370	2.03	100.0	259	274
83.0	55.0	33 43.5	120 21.5	PT	53 02 07	0820	143	420	3.41	100.0	189	293
83.0	60.0	33 34.0	120 43.5	PT	53 02 07	0341	136	413	3.30	100.0	122	56
85.0	39.0	34 00.0	119 04.0	PT	53 02 07	2306	137	430	3.20	100.0	1049	1454
85.0	40.0	33 57.0	119 09.4	PT	53 02 08	0125	153	404	3.79	100.0	856	1356
85.0	45.0	33 47.0	119 31.3	PT	53 02 09	1656	141	517	2.73	25.0	46	142
85.0	50.0	33 36.4	119 52.0	PT	53 02 09	2040	116	589	1.97	25.0	105	491
85.0	55.0	33 26.0	120 12.5	PT	53 02 10	0056	150	386	3.89	100.0	131	118
85.0	60.0	33 14.8	120 34.6	PT	53 02 10	0436	117	585	2.00	50.0	450	74
87.0	35.0	33 47.0	118 35.8	PT	53 02 11	0531	126	537	2.35	25.0	66	572
87.0	40.0	33 38.0	118 55.5	PT	53 02 11	0156	136	459	2.96	25.0	76	2509
87.0	45.0	33 28.8	119 18.0	PT	53 02 10	2226	136	476	2.86	100.0	284	1528
87.0	50.0	33 20.7	119 40.3	PT	53 02 10	1858	42	415	1.01	100.0	475	46
87.0	55.0	33 12.3	120 00.0	PT	53 02 10	1226	135	447	3.01	100.0	127	418
87.0	60.0	33 00.0	120 26.0	PT	53 02 10	0756	140	433	3.23	100.0	58	8
90.0	28.0	33 28.5	117 46.5	PT	53 02 11	1151	125	509	2.46	50.0	39	328
90.0	30.0	33 24.5	117 55.0	PT	53 02 11	1336	134	479	2.79	25.0	17	567
90.0	37.0	33 11.0	118 23.5	PT	53 02 11	1756	133	486	2.74	25.0	84	1263
90.0	45.0	32 55.5	118 54.0	PT	53 02 11	2301	138	491	2.80	25.0	74	328
90.0	53.0	32 39.7	119 26.0	PT	53 02 12	0422	122	562	2.17	100.0	51	858
90.0	60.0	32 27.3	119 52.8	PT	53 02 12	0836	118	530	2.23	25.0	7	237
90.0	70.0	32 05.0	120 32.5	PT	53 02 12	1556	121	488	2.48	100.0	8	91
90.0	80.0	31 45.7	121 10.5	PT	53 02 12	2226	142	430	3.30	100.0	14	19
93.0	27.0	32 55.3	117 20.0	PT	53 02 14	0726	143	428	3.34	50.0	23	232
93.0	30.0	32 50.6	117 35.5	PT	53 02 14	0456	142	463	3.07	25.0	15	401
93.0	40.0	32 23.6	118 06.5	PT	53 02 13	2236	136	452	3.00	25.0	33	122
93.0	50.0	32 08.0	118 54.0	PT	53 02 13	1716	133	484	2.74	25.0	25	179
93.0	60.0	31 39.5	119 40.0	PT	53 02 13	0951	133	503	2.64	50.0	1	134
97.0	30.0	32 15.0	117 09.0	CR	53 02 24	1704	38	185	2.06	100.0	233	348
97.0	32.0	32 12.0	117 17.0	CR	53 02 24	1841	138	484	2.85	100.0	242	322
97.0	40.0	31 55.0	117 50.0	CR	53 02 24	2256	134	452	2.97	100.0	176	514
97.0	50.0	31 35.0	118 31.0	CR	53 02 25	0356	128	530	2.41	100.0	59	144
97.0	60.0	31 15.0	119 10.0	CR	53 02 25	0815	136	425	3.21	100.0	302	129
100.0	29.0	31 41.0	116 45.0	CR	53 02 17	2301	137	487	2.82	100.0	297	198
100.0	30.0	31 38.0	116 51.0	CR	53 02 18	0008	62	280	2.21	100.0	53	551
100.0	40.0	31 20.0	117 36.0	CR	53 02 18	0511	155	482	3.22	100.0	136	410
100.0	50.0	31 03.0	118 08.0	CR	53 02 18	1020	135	557	2.42	100.0	473	96
100.0	60.0	30 41.0	118 48.0	CR	53 02 25	1316	142	434	3.27	100.0	602	19

TABLE 1. (cont.)

CalCOFI Cruise 5302

Line	Station	Lat.(N) deg.	Lat.(N) min.	Long.(W) deg.	Long.(W) min.	Ship Code	Tow Date yr.	Tow Date mo.	Tow Date day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
100.0	70.0	30	20.0	119	27.0	CR	53	02	25	1746	137	444	3.09	100.0	1273	138
100.0	80.0	30	01.0	120	07.0	CR	53	02	25	2221	139	431	3.21	100.0	835	437
105.0	32.0	30	47.0	116	22.0	CR	53	02	17	0933	55	228	2.40	100.0	116	294
105.0	35.0	30	41.0	116	34.0	CR	53	02	17	0751	135	466	2.91	50.0	116	4152
105.0	40.0	30	32.0	116	52.0	CR	53	02	17	0516	145	461	3.15	100.0	195	325
105.0	50.0	30	13.0	117	31.0	CR	53	02	17	0041	138	482	2.86	100.0	14	121
105.0	60.0	29	51.0	118	52.0	CR	53	02	16	1621	141	460	3.07	100.0	1036	146
110.0	33.0	29	50.2	115	53.0	CR	53	02	15	1013	69	233	2.96	100.0	236	169
110.0	35.0	29	46.6	116	00.0	CR	53	02	15	1156	133	514	2.58	100.0	35	502
110.0	40.0	29	36.5	116	19.5	CR	53	02	15	1456	141	507	2.78	100.0	11	26
110.0	50.0	29	16.0	116	59.0	CR	53	02	15	1951	145	464	3.12	100.0	12	277
110.0	60.0	28	56.5	117	39.0	CR	53	02	16	0041	145	478	3.03	100.0	50	167
113.0	30.0	29	22.0	115	18.0	CR	53	02	15	0534	38	171	2.25	100.0	481	49
113.0	35.0	29	12.0	115	39.0	CR	53	02	15	0211	137	513	2.67	100.0	552	475
113.0	40.0	29	02.0	115	58.5	CR	53	02	14	2246	141	482	2.93	100.0	683	120
113.0	50.0	28	42.0	116	37.5	CR	53	02	14	1731	133	537	2.47	100.0	11	15
113.0	60.0	28	22.0	117	17.0	CR	53	02	14	1236	135	526	2.56	100.0	212	504
117.0	26.0	29	03.7	114	46.7	CR	53	02	13	0438	55	231	2.38	100.0	68	37
117.0	30.0	28	56.5	114	58.7	CR	53	02	13	0618	56	213	2.64	100.0	63	273
117.0	35.0	28	45.2	115	20.8	CR	53	02	13	0811	139	464	3.00	100.0	257	952
117.0	40.0	28	28.0	115	35.5	CR	53	02	13	1201	144	490	2.95	100.0	23	3
117.0	50.0	28	08.0	116	15.0	CR	53	02	14	0256	140	529	2.65	25.0	40	812
117.0	60.0	27	48.0	116	55.0	CR	53	02	14	0741	149	458	3.25	100.0	21	63
120.0	25.0	28	23.0	114	14.0	CR	53	02	12	0734	42	208	2.03	25.0	116	1065
120.0	30.0	28	11.0	114	32.0	CR	53	02	12	0458	56	234	2.40	100.0	210	81
120.0	35.0	28	03.0	114	54.0	CR	53	02	12	0142	61	228	2.68	100.0	39	28
120.0	45.0	27	42.0	115	34.0	CR	53	02	11	2046	139	498	2.79	100.0	188	256
120.0	50.0	27	34.0	115	52.0	CR	53	02	11	1756	145	501	2.89	100.0	198	224
120.0	60.0	27	14.0	116	31.0	CR	53	02	11	1241	139	513	2.70	100.0	24	71
120.0	70.0	26	48.0	117	23.0	CR	53	02	11	0526	142	483	2.95	100.0	81	9
120.0	80.0	26	31.0	117	59.0	CR	53	02	11	0016	151	483	3.13	100.0	27	36
123.0	37.0	27	24.0	114	40.0	CR	53	02	10	0403	42	194	2.17	100.0	454	5
123.0	40.0	27	18.0	114	51.5	CR	53	02	10	0611	140	509	2.74	100.0	53	243
123.0	45.0	27	08.0	115	11.0	CR	53	02	10	0831	143	473	3.02	100.0	105	105
123.0	50.0	26	58.0	115	32.0	CR	53	02	10	1126	144	475	3.04	100.0	28	40
127.0	34.0	26	56.0	114	07.0	CR	53	02	09	0548	53	243	2.18	100.0	102	90
127.0	40.0	26	43.0	114	29.0	CR	53	02	09	0246	142	504	2.81	100.0	130	322
127.0	45.0	26	33.0	114	49.2	CR	53	02	08	2321	134	489	2.73	100.0	58	54
127.0	50.0	26	23.5	115	08.0	CR	53	02	08	2101	165	411	3.99	100.0	19	24
130.0	30.0	26	29.0	113	29.0	CR	53	02	07	1928	58	211	2.73	100.0	223	7
130.0	35.0	26	19.0	113	48.5	CR	53	02	07	2321	132	497	2.65	50.0	136	2781
130.0	40.0	26	09.0	114	07.5	CR	53	02	08	0311	136	538	2.54	100.0	52	414
130.0	45.0	25	58.0	114	28.0	CR	53	02	08	0546	138	500	2.76	100.0	29	24
130.0	50.0	25	49.0	114	46.0	CR	53	02	08	0846	136	484	2.81	100.0	26	35
130.0	60.0	25	29.0	115	24.0	CR	53	02	08	1351	143	487	2.93	100.0	5	16

TABLE 1. (cont.)

CalCOFI Cruise 5302

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
133.0	25.0	26 09.5	112 56.0	CR	53 02 07	1543	55	257	2.15	100.0	143	28
133.0	30.0	26 00.0	113 15.0	CR	53 02 07	1311	135	516	2.62	100.0	141	965
133.0	40.0	25 37.5	113 57.0	CR	53 02 07	0811	138	487	2.84	100.0	61	487
137.0	23.0	25 41.0	112 25.5	CR	53 02 06	2043	54	243	2.21	50.0	496	11

TABLE 1. (cont.)

CalCOFI Cruise 5303

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
80.0	51.0	34	26.5	120	32.5	ES	53	03	10	1243	76	303	2.49	50.0	26	268
80.0	55.0	34	19.0	120	48.0	ES	53	03	10	1511	128	466	2.75	50.0	66	49
80.0	60.0	34	09.0	121	09.0	ES	53	03	10	1906	168	362	4.64	100.0	380	368
80.0	70.0	33	49.0	121	51.0	ES	53	03	11	0111	148	408	3.63	100.0	96	24
80.0	80.0	33	31.5	122	31.0	ES	53	03	11	0801	154	442	3.48	100.0	6	16
80.0	90.0	33	10.0	123	14.0	ES	53	03	11	1436	137	500	2.74	100.0	18	13
80.0	100.0	32	49.0	123	54.0	ES	53	03	11	2036	132	537	2.46	100.0	71	9
83.0	43.0	34	08.0	119	34.0	ES	53	03	09	0913	73	247	2.95	50.0	80	65
83.0	48.0	33	57.8	119	54.5	ES	53	03	08	1306	142	492	2.90	100.0	141	43
83.0	51.0	33	52.0	120	08.3	ES	53	03	08	1101	149	450	3.31	100.0	109	112
83.0	55.0	33	44.0	120	24.5	ES	53	03	08	0826	148	456	3.25	50.0	77	79
83.0	60.0	33	34.0	120	45.0	ES	53	03	08	0456	155	422	3.68	50.0	321	192
85.0	39.0	34	00.0	119	04.0	ES	53	03	07	0656	123	565	2.19	100.0	458	828
85.0	40.0	33	57.0	119	10.5	ES	53	03	07	0942	148	451	3.28	100.0	129	61
85.0	45.0	33	47.0	119	31.2	ES	53	03	07	1351	145	440	3.29	50.0	80	188
85.0	50.0	33	37.0	119	52.0	ES	53	03	07	1756	146	506	2.89	100.0	38	577
85.0	55.0	33	27.0	120	12.5	ES	53	03	07	2201	146	480	3.04	50.0	42	362
85.0	60.0	33	17.0	120	33.5	ES	53	03	08	0126	139	456	3.04	50.0	207	263
87.0	35.0	33	50.0	118	37.5	ES	53	03	07	0301	144	490	2.94	100.0	290	2667
87.0	40.0	33	40.0	118	58.5	ES	53	03	06	2336	151	437	3.46	100.0	143	1119
87.0	45.0	33	30.8	119	16.2	ES	53	03	06	1941	143	480	2.98	100.0	197	684
87.0	50.0	33	20.4	119	39.8	ES	53	03	06	1613	42	215	1.97	100.0	88	57
87.0	55.0	33	08.1	120	00.5	ES	53	03	06	1306	139	506	2.76	50.0	14	75
90.0	28.0	33	28.5	117	46.7	ES	53	03	14	0611	147	495	2.97	100.0	609	130
90.0	30.0	33	24.5	117	55.0	ES	53	03	14	0406	148	507	2.91	100.0	400	1351
90.0	37.0	33	11.0	118	23.5	ES	53	03	14	2335	139	470	2.95	100.0	182	1649
90.0	45.0	32	54.5	118	56.0	ES	53	03	19	2216	147	433	3.39	100.0	132	166
90.0	50.0	32	45.0	119	17.0	ES	53	03	20	0300	148	464	3.19	100.0	133	18
90.0	55.0	32	34.8	119	36.8	ES	53	03	20	0600	155	479	3.23	25.0	13	82
90.0	60.0	32	25.0	119	57.5	ES	53	03	13	0616	157	414	3.80	100.0	90	1172
90.0	70.0	32	04.5	120	39.0	ES	53	03	13	0001	150	445	3.38	50.0	48	1742
90.0	80.0	31	45.0	121	19.0	ES	53	03	12	1831	153	507	3.02	25.0	7	16659
90.0	90.0	31	25.0	121	59.0	ES	53	03	12	1256	145	458	3.16	100.0	44	216
93.0	30.0	32	50.0	117	31.5	ES	53	03	15	2015	139	468	2.97	100.0	162	209
93.0	50.0	32	12.0	118	49.0	ES	53	03	16	0756	149	467	3.19	100.0	116	2032
97.0	30.0	32	16.0	117	07.8	ES	53	03	21	0153	47	163	2.90	100.0	128	36
97.0	35.0	32	05.5	117	29.0	ES	53	03	20	2211	148	508	2.92	100.0	65	141
97.0	40.0	31	56.5	117	51.0	ES	53	03	20	1831	148	472	3.13	100.0	34	78
100.0	29.0	31	42.0	116	43.5	CR	53	03	27	0206	125	490	2.54	50.0	87	127
100.0	30.0	31	40.5	116	46.5	CR	53	03	27	0041	134	481	2.78	100.0	104	88
100.0	40.0	31	19.5	117	24.0	CR	53	03	26	2016	134	469	2.86	50.0	90	786
100.0	50.0	31	01.0	118	08.0	CR	53	03	26	1516	137	480	2.85	100.0	71	85
100.0	60.0	30	41.0	118	47.0	CR	53	03	26	1026	132	494	2.68	100.0	105	27
100.0	70.0	30	21.0	119	25.0	CR	53	03	26	0531	142	488	2.90	100.0	278	69
100.0	80.0	30	01.0	120	07.0	CR	53	03	26	0046	142	475	3.00	100.0	183	64

TABLE 1. (cont.)

CalCOFI Cruise 5303

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
105.0	32.0	30	44.0	116	23.0	CR	53	03	23	2216	135	454	2.99	100.0	83	79
105.0	35.0	30	40.0	116	33.5	CR	53	03	24	0021	114	537	2.13	100.0	106	1597
105.0	40.0	30	28.5	116	54.0	CR	53	03	24	0321	131	497	2.64	100.0	76	779
105.0	50.0	30	09.0	117	34.0	CR	53	03	24	0821	136	492	2.77	50.0	23	1373
105.0	60.0	29	48.0	118	15.0	CR	53	03	24	1311	134	483	2.77	50.0	13	1080
105.0	70.0	29	30.0	118	55.0	CR	53	03	25	1100	138	509	2.71	50.0	41	1979
105.0	80.0	29	09.0	119	34.0	CR	53	03	25	1606	140	483	2.89	100.0	215	214
110.0	33.0	29	50.5	115	52.0	CR	53	03	23	1518	60	290	2.07	100.0	310	416
110.0	35.0	29	47.0	116	00.0	CR	53	03	23	1341	136	474	2.88	50.0	97	583
110.0	40.0	29	36.5	116	18.5	CR	53	03	23	1106	137	488	2.80	100.0	185	409
110.0	50.0	29	20.0	116	58.0	CR	53	03	23	0631	131	478	2.75	100.0	82	173
110.0	60.0	28	56.0	117	38.0	CR	53	03	23	0126	143	557	2.57	100.0	102	296
110.0	70.0	28	36.0	118	18.0	CR	53	03	22	0511	142	506	2.80	100.0	36	347
113.0	30.0	29	22.5	115	17.8	CR	53	03	21	0209	31	162	1.89	100.0	28	0
113.0	30.0	29	25.0	115	18.7	SB	53	04	05	0853	56	344	1.62	100.0	26	10
113.0	35.0	29	16.5	115	42.0	SB	53	04	05	0646	132	460	2.87	100.0	38	150
113.0	35.0	29	14.0	115	42.0	CR	53	03	21	0531	141	521	2.71	100.0	481	670
113.0	40.0	29	05.0	116	00.0	CR	53	03	21	0815	135	558	2.41	100.0	392	275
113.0	40.0	29	05.5	116	01.0	SB	53	04	05	0316	125	515	2.43	100.0	73	206
113.0	45.0	28	54.5	116	19.0	SB	53	04	04	2311	150	424	3.53	100.0	38	46
113.0	45.0	28	49.0	116	19.0	CR	53	03	21	1101	135	533	2.52	100.0	72	81
113.0	50.0	28	42.0	116	37.5	SB	53	04	04	1906	128	509	2.51	100.0	171	314
113.0	50.0	28	42.0	116	37.0	CR	53	03	21	1241	132	580	2.27	100.0	15	1459
113.0	55.0	28	32.5	117	00.0	SB	53	04	04	1701	128	459	2.79	100.0	7	69
113.0	55.0	28	34.0	116	53.0	CR	53	03	21	1721	145	459	3.15	100.0	62	99
113.0	60.0	28	22.0	117	16.5	CR	53	03	21	2050	147	439	3.36	100.0	143	369
113.0	60.0	28	23.0	117	20.5	SB	53	04	04	1451	133	457	2.91	100.0	38	11
113.0	70.0	28	02.5	117	55.5	SB	53	04	04	0911	133	480	2.78	100.0	138	105
117.0	26.0	28	57.0	114	42.5	SB	53	04	03	0328	46	400	1.15	50.0	118	162
117.0	26.0	28	56.0	114	41.0	CR	53	03	20	1819	35	187	1.89	100.0	77	124
117.0	30.0	28	48.0	114	56.5	CR	53	03	20	1603	49	242	2.03	100.0	15	15
117.0	30.0	28	48.0	114	56.5	SB	53	04	03	0558	72	375	1.91	100.0	243	1251
117.0	35.0	28	38.5	115	17.0	SB	53	04	03	0836	110	567	1.94	100.0	39	457
117.0	35.0	28	38.0	115	16.0	CR	53	03	20	1336	130	452	2.88	100.0	64	379
117.0	40.0	28	29.0	115	35.0	SB	53	04	03	1141	137	456	2.99	100.0	142	328
117.0	40.0	28	28.0	115	36.0	CR	53	03	20	1031	140	501	2.80	100.0	180	107
117.0	45.0	28	19.0	115	55.5	SB	53	04	03	1351	122	475	2.57	100.0	80	83
117.0	45.0	28	11.0	116	04.0	CR	53	03	20	0046	133	493	2.70	100.0	89	813
117.0	50.0	28	09.0	116	15.0	SB	53	04	03	1706	143	419	3.41	100.0	23	47
117.0	50.0	28	08.0	116	15.0	CR	53	03	19	2236	139	443	3.14	100.0	98	33
117.0	55.0	27	59.0	116	34.9	SB	53	04	03	1926	138	472	2.92	100.0	117	24
117.0	55.0	27	57.0	116	34.0	CR	53	03	19	1921	144	481	3.00	100.0	127	64
117.0	60.0	27	48.0	116	54.0	SB	53	04	03	2256	138	469	2.95	100.0	159	14
117.0	60.0	27	47.5	116	54.0	CR	53	03	19	1701	142	480	2.95	100.0	146	269
117.0	70.0	27	28.5	117	32.0	SB	53	04	04	0401	147	432	3.40	100.0	62	13

TABLE 1. (cont.)

CalCOFI Cruise 5303

Line	Station	Lat.(N) deg.	Lat.(N) min.	Long.(W) deg.	Long.(W) min.	Ship Code	Tow Date yr.	Tow Date mo.	Tow Date day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
120.0	25.0	28	23.0	114	15.0	SB	53	04	02	2244	42	237	1.77	100.0	628	2264
120.0	25.0	28	23.0	114	14.3	CR	53	03	18	0328	39	179	2.19	100.0	53	166
120.0	30.0	28	13.0	114	34.0	CR	53	03	18	0603	71	266	2.67	100.0	33	442
120.0	30.0	28	10.5	114	32.6	SB	53	04	02	1958	54	343	1.57	100.0	137	536
120.0	35.0	28	03.1	114	54.0	SB	53	04	02	1713	56	324	1.71	100.0	11	349
120.0	35.0	28	03.0	114	54.0	CR	53	03	18	0838	68	253	2.68	100.0	24	215
120.0	40.0	27	57.0	115	16.5	SB	53	04	02	0913	50	362	1.39	50.0	21	167
120.0	40.0	27	55.3	115	17.0	CR	53	03	19	0008	50	244	2.06	100.0	170	105
120.0	45.0	27	43.0	115	33.0	CR	53	03	19	0336	139	488	2.84	100.0	110	223
120.0	45.0	27	43.0	115	32.0	SB	53	04	02	0701	142	439	3.24	100.0	49	533
120.0	50.0	27	32.0	115	51.0	SB	53	04	02	0311	130	522	2.49	100.0	13	4
120.0	50.0	27	34.5	115	49.5	CR	53	03	19	0621	132	517	2.55	100.0	64	31
120.0	55.0	27	22.5	116	11.5	CR	53	03	19	0816	139	480	2.89	100.0	4	7
120.0	55.0	27	26.0	116	13.0	SB	53	04	02	0016	129	492	2.62	100.0	26	204
120.0	60.0	27	10.0	116	32.5	CR	53	03	19	1141	138	474	2.91	100.0	16	2
120.0	60.0	27	16.5	116	32.0	SB	53	04	01	2216	138	455	3.04	100.0	40	8
120.0	70.0	26	56.2	117	13.0	SB	53	04	01	1716	137	470	2.92	100.0	10	3
120.0	80.0	26	33.0	118	01.5	SB	53	04	01	1146	120	505	2.38	100.0	27	45
120.0	90.0	26	12.9	118	28.0	SB	53	04	01	0711	152	454	3.34	100.0	13	292
123.0	37.0	27	24.0	114	39.6	SB	53	03	31	0423	59	316	1.86	100.0	91	585
123.0	37.0	27	24.0	114	40.0	CR	53	03	17	1733	55	214	2.57	100.0	454	216
123.0	40.0	27	18.0	114	51.5	CR	53	03	17	1602	107	391	2.74	100.0	76	307
123.0	40.0	27	18.0	114	51.5	SB	53	03	31	0701	148	432	3.44	100.0	57	264
123.0	45.0	27	08.0	115	11.0	SB	53	03	31	0916	141	438	3.22	100.0	12	34
123.0	45.0	27	09.2	115	11.0	CR	53	03	17	1216	140	536	2.62	100.0	190	142
123.0	50.0	26	58.5	115	32.0	CR	53	03	17	1016	140	466	3.01	100.0	68	292
123.0	50.0	26	56.0	115	30.5	SB	53	03	31	1236	139	484	2.88	100.0	135	520
123.0	55.0	26	49.0	115	50.0	CR	53	03	17	0641	135	517	2.61	100.0	43	201
123.0	55.0	26	47.5	115	49.0	SB	53	03	31	1451	139	485	2.87	100.0	215	205
123.0	60.0	26	40.0	116	08.0	SB	53	03	31	1811	131	482	2.72	100.0	160	130
123.0	60.0	26	39.0	116	10.0	CR	53	03	17	0421	137	484	2.83	100.0	134	95
127.0	34.0	26	55.0	114	06.0	CR	53	03	16	0022	55	377	1.45	25.0	384	149
127.0	34.0	26	55.5	114	06.0	SB	53	03	30	2304	33	220	1.49	100.0	201	183
127.0	40.0	26	43.0	114	28.5	CR	53	03	16	1136	132	485	2.72	25.0	394	174
127.0	40.0	26	43.9	114	27.0	SB	53	03	30	1926	161	430	3.74	100.0	52	121
127.0	45.0	26	35.2	114	50.0	SB	53	03	30	1636	141	500	2.83	100.0	25	807
127.0	45.0	26	33.5	114	48.0	CR	53	03	16	1351	137	504	2.73	100.0	355	405
127.0	50.0	26	22.0	115	06.5	CR	53	03	16	1706	136	501	2.71	100.0	35	183
127.0	50.0	26	29.0	115	04.5	SB	53	03	30	1330	142	473	3.01	100.0	37	2986
127.0	55.0	26	10.0	115	35.0	SB	53	03	30	0921	143	460	3.11	100.0	48	757
127.0	55.0	26	12.0	115	27.0	CR	53	03	16	1911	131	536	2.45	100.0	19	18
127.0	60.0	26	04.0	115	46.0	CR	53	03	16	2226	142	453	3.13	100.0	33	40
127.0	60.0	26	02.0	115	51.0	SB	53	03	30	0646	143	539	2.66	100.0	93	66
130.0	30.0	26	29.0	113	29.0	CR	53	03	15	1948	55	319	1.73	100.0	568	3
130.0	30.0	26	30.0	113	29.5	SB	53	03	29	0553	53	393	1.35	100.0	11	4

TABLE 1. (cont.)

CalCOFI Cruise 5303

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
130.0	35.0	26	19.0	113	48.5	CR	53	03	15	1631	141	494	2.86	100.0	305	173
130.0	35.0	26	19.0	113	48.5	SB	53	03	29	0911	144	467	3.09	100.0	12	59
130.0	40.0	26	09.0	114	07.0	CR	53	03	15	1331	137	512	2.68	100.0	315	319
130.0	40.0	26	09.0	114	10.0	SB	53	03	29	1256	140	439	3.19	100.0	181	295
130.0	45.0	25	59.0	114	27.0	SB	53	03	29	1516	146	420	3.47	100.0	55	273
130.0	45.0	26	00.0	114	27.0	CR	53	03	15	1011	142	460	3.09	100.0	19	119
130.0	50.0	25	48.0	114	45.0	CR	53	03	15	0751	138	498	2.77	100.0	53	49
130.0	50.0	25	46.5	114	53.5	SB	53	03	29	1841	146	466	3.13	100.0	75	290
130.0	55.0	25	39.0	115	05.0	CR	53	03	15	0426	145	505	2.87	100.0	55	80
130.0	55.0	25	38.0	115	10.0	SB	53	03	29	2046	154	467	3.30	100.0	54	30
130.0	60.0	25	30.0	115	25.0	SB	53	03	30	0101	153	444	3.44	100.0	154	39
130.0	60.0	25	29.0	115	24.0	CR	53	03	15	0206	144	497	2.91	100.0	76	47
133.0	25.0	26	03.0	112	46.5	CR	53	03	14	0333	56	415	1.34	100.0	224	66
133.0	25.0	26	05.0	112	51.2	SB	53	03	29	0027	54	367	1.48	100.0	192	6
133.0	30.0	25	54.5	113	07.5	CR	53	03	14	0651	135	538	2.51	100.0	47	11
133.0	30.0	25	58.0	113	04.3	SB	53	03	28	2218	74	423	1.75	100.0	199	108
133.0	35.0	25	43.5	113	26.0	CR	53	03	14	0906	141	501	2.82	100.0	66	362
133.0	35.0	25	45.5	113	26.0	SB	53	03	28	1856	131	539	2.43	100.0	308	803
133.0	40.0	25	35.3	113	44.5	SB	53	03	28	1641	151	419	3.60	100.0	14	102
133.0	40.0	25	30.0	113	49.0	CR	53	03	14	1236	139	520	2.66	100.0	29	116
133.0	45.0	25	22.0	114	06.5	CR	53	03	14	1436	144	506	2.85	100.0	41	62
133.0	45.0	25	21.0	114	05.4	SB	53	03	28	1236	150	426	3.52	100.0	5	213
133.0	50.0	25	11.0	114	26.6	SB	53	03	28	1001	139	480	2.90	100.0	31	379
133.0	50.0	25	14.0	114	24.0	CR	53	03	14	1741	140	505	2.77	100.0	22	37
133.0	55.0	25	04.5	114	44.0	SB	53	03	28	0641	149	440	3.38	100.0	24	14
133.0	60.0	24	55.0	115	01.0	SB	53	03	28	0421	142	479	2.96	100.0	73	33
137.0	23.0	25	36.0	112	20.5	CR	53	03	13	2303	70	276	2.55	100.0	491	54
137.0	23.0	25	34.5	112	18.5	SB	53	03	27	0238	48	252	1.91	100.0	51	70
137.0	30.0	25	19.1	112	44.3	SB	53	03	27	0639	137	588	2.34	100.0	18	222
137.0	30.0	25	22.5	112	45.5	CR	53	03	13	1900	143	535	2.67	100.0	332	81
137.0	35.0	25	12.0	113	05.0	CR	53	03	13	1551	136	546	2.49	100.0	36	53
137.0	35.0	25	09.0	113	06.0	SB	53	03	27	0901	135	559	2.41	100.0	19	140
137.0	40.0	25	01.0	113	24.5	CR	53	03	13	1316	138	587	2.34	100.0	68	142
137.0	40.0	24	58.0	113	22.5	SB	53	03	27	1216	145	501	2.90	100.0	6	190
137.0	45.0	24	50.0	113	42.5	SB	53	03	27	1446	126	526	2.41	100.0	40	289
137.0	45.0	24	50.0	113	43.0	CR	53	03	13	0942	144	502	2.87	100.0	38	42
137.0	50.0	24	40.0	114	02.0	CR	53	03	13	0656	146	521	2.79	100.0	21	16
137.0	50.0	24	37.0	114	05.5	SB	53	03	27	1801	134	504	2.66	100.0	76	307
137.0	55.0	24	28.0	114	23.0	SB	53	03	27	2016	129	499	2.59	100.0	84	996
137.0	60.0	24	20.0	114	40.0	SB	53	03	27	2311	148	457	3.24	100.0	119	36

TABLE 1. (cont.)

CalCOFI Cruise 5304

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	55.0	37 47.5	123 14.9	HO	53 04 18	0920	86	251	3.43	100.0	7	12
60.0	60.0	37 37.8	123 36.1	HO	53 04 18	0616	141	379	3.72	100.0	5	32
60.0	70.0	37 18.5	124 21.1	HO	53 04 18	0109	115	350	3.29	100.0	8	45
60.0	80.0	36 57.0	125 04.0	HO	53 04 17	2021	102	589	1.73	13.0	3	2
60.0	90.0	36 40.9	125 43.0	HO	53 04 17	1536	119	524	2.28	50.0	2	33
63.0	52.0	37 19.4	122 35.0	HO	53 04 18	1514	70	262	2.68	100.0	13	3
63.0	55.0	37 14.5	122 48.1	HO	53 04 18	1326	118	520	2.26	100.0	8	41
67.0	50.0	36 48.5	122 04.0	HO	53 04 18	1911	111	610	1.82	50.0	6	11
67.0	55.0	36 38.8	122 25.9	HO	53 04 18	2206	117	555	2.10	50.0	14	0
70.0	51.0	36 10.0	121 45.2	HO	53 04 16	0519	144	502	2.87	100.0	27	15
70.0	55.0	36 02.8	122 01.8	HO	53 04 16	0836	140	466	2.99	100.0	7	13
70.0	60.0	35 49.4	122 24.7	HO	53 04 16	1136	120	577	2.07	50.0	4	19
70.0	70.0	35 34.0	123 04.8	HO	53 04 16	1616	131	522	2.52	50.0	11	14
70.0	90.0	34 54.6	124 33.0	HO	53 04 17	0251	146	467	3.12	100.0	77	41
73.0	50.0	35 37.4	121 16.6	HO	53 04 16	0048	72	325	2.20	100.0	33	0
73.0	60.0	35 18.2	121 56.6	HO	53 04 15	2016	147	510	2.88	50.0	24	3
77.0	50.0	35 04.5	120 51.5	HO	53 04 15	0711	110	366	3.00	100.0	12	253
77.0	55.0	34 54.6	121 12.8	HO	53 04 15	1016	110	519	2.13	50.0	11	7
77.0	65.0	34 35.2	121 54.0	HO	53 04 15	1501	133	525	2.53	25.0	1	9
80.0	51.0	34 34.5	120 44.6	HO	53 04 15	0308	78	271	2.89	100.0	51	29
80.0	55.0	34 28.5	120 57.6	HO	53 04 15	0041	144	474	3.03	50.0	50	44
80.0	60.0	34 12.3	121 15.8	HO	53 04 14	2126	128	514	2.48	50.0	45	54
80.0	70.0	33 49.0	121 44.3	HO	53 04 14	1616	141	507	2.78	100.0	6	20
80.0	80.0	33 29.5	122 31.0	HO	53 04 14	0943	151	455	3.31	100.0	15	8
80.0	90.0	33 03.8	123 12.1	HO	53 04 14	0356	140	510	2.75	100.0	9	8
80.0	100.0	32 49.8	123 53.0	HO	53 04 13	2226	126	542	2.33	100.0	25	61
80.0	110.0	32 30.0	124 39.8	HO	53 04 13	1706	144	474	3.05	100.0	2	96
80.0	120.0	32 10.6	125 15.0	HO	53 04 13	1241	132	538	2.46	100.0	42	90
80.0	130.0	31 54.0	125 48.0	HO	53 04 13	0817	136	488	2.79	100.0	8	10
80.0	145.0	31 18.6	126 56.7	HO	53 04 13	0026	114	678	1.69	100.0	131	106
80.0	160.0	30 48.0	127 58.0	HO	53 04 12	1616	139	529	2.63	100.0	18	7
83.0	40.0	34 14.0	119 22.0	ES	53 04 30	1037	21	201	1.06	100.0	27	669
83.0	43.0	34 08.0	119 34.0	PT	53 04 17	1456	142	456	3.12	50.0	56	68
83.0	48.0	33 58.3	119 55.0	ES	53 04 30	1651	157	414	3.78	50.0	21	33
83.0	48.0	33 58.8	119 55.2	PT	53 04 17	0748	64	288	2.20	100.0	125	44
83.0	51.0	33 52.0	120 07.0	PT	53 04 17	0532	100	437	2.29	100.0	100	108
83.0	55.0	33 39.7	120 14.5	PT	53 04 17	0226	147	439	3.34	50.0	47	62
83.0	60.0	33 30.2	120 39.1	PT	53 04 16	2236	136	451	3.01	25.0	31	27
83.0	70.0	33 12.5	121 25.5	PT	53 04 16	1521	142	474	2.99	100.0	44	17
83.0	80.0	32 53.5	122 07.0	PT	53 04 16	0826	142	527	2.69	100.0	8	15
83.0	90.0	32 34.5	122 48.0	PT	53 04 16	0136	147	504	2.91	50.0	22	3
85.0	39.0	33 59.5	119 02.5	PT	53 04 13	0648	70	268	2.60	100.0	82	151
85.0	39.0	34 00.0	119 04.5	ES	53 04 30	0631	152	432	3.52	50.0	22	139
85.0	40.0	33 57.0	119 10.5	ES	53 04 30	0346	155	429	3.62	50.0	111	135
85.0	40.0	33 56.3	119 10.2	PT	53 04 13	0441	142	513	2.77	100.0	211	321

TABLE 1. (cont.)

CalCOFI Cruise 5304

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
85.0	45.0	33	47.0	119	31.2	ES	53	04	29	2156	149	494	3.01	50.0	96	13
85.0	45.0	33	46.2	119	32.6	PT	53	04	12	2341	139	546	2.55	100.0	90	105
85.0	50.0	33	34.8	119	45.0	PT	53	04	12	1900	135	566	2.38	100.0	140	173
85.0	50.0	33	37.0	119	52.0	ES	53	04	29	1736	128	497	2.58	100.0	99	50
85.0	55.0	33	26.2	120	09.6	PT	53	04	12	1321	145	507	2.86	100.0	164	232
85.0	55.0	33	27.0	120	12.5	ES	53	04	29	1416	149	470	3.17	50.0	16	7
85.0	60.0	33	12.0	120	33.7	PT	53	04	12	0756	137	445	3.09	50.0	12	47
87.0	35.0	33	49.3	118	35.7	PT	53	04	13	1041	133	456	2.92	100.0	12	344
87.0	35.0	33	49.8	118	38.0	ES	53	05	01	0226	141	429	3.28	50.0	110	57
87.0	40.0	33	40.9	119	01.8	PT	53	04	14	0641	143	470	3.04	100.0	112	76
87.0	45.0	33	31.7	119	20.0	PT	53	04	14	1011	132	579	2.27	100.0	72	316
87.0	50.0	33	21.3	119	39.5	PT	53	04	14	1338	68	261	2.59	100.0	54	27
87.0	55.0	33	07.5	120	03.0	PT	53	04	14	1731	143	457	3.14	50.0	71	58
87.0	60.0	32	55.5	120	24.0	PT	53	04	14	2211	131	691	1.90	50.0	57	54
87.0	70.0	32	32.2	121	04.0	PT	53	04	15	0506	136	530	2.57	50.0	33	6
87.0	80.0	32	09.5	121	44.0	PT	53	04	15	1251	146	533	2.74	100.0	15	30
87.0	90.0	32	00.0	122	24.0	PT	53	04	15	1836	147	494	2.97	100.0	16	30
90.0	28.0	33	28.6	117	47.8	HO	53	04	07	2211	147	459	3.21	100.0	317	735
90.0	30.0	33	25.4	117	55.4	HO	53	04	08	0026	125	502	2.50	100.0	244	474
90.0	37.0	33	11.0	118	23.8	HO	53	04	08	0521	109	612	1.78	100.0	64	40
90.0	45.0	32	53.7	118	57.4	HO	53	04	08	1101	139	488	2.84	100.0	16	408
90.0	55.0	32	33.0	119	37.7	HO	53	04	08	1846	138	503	2.74	50.0	59	398
90.0	60.0	32	24.5	119	55.3	HO	53	04	08	2206	144	470	3.07	13.0	7	26
90.0	70.0	32	08.6	120	46.1	HO	53	04	09	0351	121	530	2.28	100.0	106	33
90.0	80.0	31	44.8	121	18.5	HO	53	04	09	0818	135	426	3.16	100.0	20	18
90.0	90.0	31	22.0	122	05.4	HO	53	04	09	1356	143	506	2.83	100.0	9	49
90.0	100.0	31	06.1	122	38.7	HO	53	04	09	1801	130	535	2.42	100.0	6	12
90.0	110.0	30	45.5	123	20.5	HO	53	04	09	2356	106	581	1.82	100.0	19	10
90.0	120.0	30	26.0	124	05.0	HO	53	04	10	0531	140	453	3.08	100.0	13	28
90.0	130.0	30	04.0	124	39.2	HO	53	04	10	1041	155	462	3.36	100.0	10	98
90.0	145.0	29	36.4	125	40.5	HO	53	04	10	1801	127	502	2.54	100.0	33	159
90.0	160.0	29	07.0	126	42.0	HO	53	04	11	0141	136	526	2.59	100.0	55	52
93.0	27.0	32	56.0	117	19.0	CR	53	04	07	1656	138	445	3.10	50.0	89	115
93.0	30.0	32	50.0	117	31.5	CR	53	04	07	1916	129	463	2.79	50.0	151	33
93.0	35.0	32	40.0	117	52.3	CR	53	04	07	2136	138	462	2.99	100.0	74	29
93.0	40.0	32	30.0	118	12.5	CR	53	04	08	0056	137	474	2.89	100.0	52	97
93.0	45.0	32	20.0	118	33.0	CR	53	04	08	0321	135	429	3.14	50.0	59	283
93.0	50.0	32	07.5	118	59.0	CR	53	04	08	0711	145	422	3.43	100.0	6	15
93.0	55.0	32	00.0	119	15.0	CR	53	04	08	0906	140	430	3.25	100.0	29	26
93.0	60.0	31	50.0	119	34.0	CR	53	04	08	1226	123	491	2.51	100.0	25	10
93.0	70.0	31	33.0	120	21.0	CR	53	04	08	1821	140	446	3.14	100.0	73	56
93.0	80.0	31	13.0	120	56.0	CR	53	04	08	2336	140	386	3.64	100.0	14	130
93.0	90.0	30	55.5	121	32.5	CR	53	04	09	0706	143	430	3.33	100.0	10	26
97.0	30.0	32	16.0	117	09.0	CR	53	04	10	2038	49	172	2.83	100.0	154	97
97.0	35.0	32	05.5	117	29.0	CR	53	04	10	1825	146	452	3.23	100.0	56	218

TABLE 1. (cont.)

CalCOFI Cruise 5304

Line	Station	Lat.(N) deg.	Lat.(N) min.	Long.(W) deg.	Long.(W) min.	Ship Code	Tow Date yr.	Tow Date mo.	Tow Date day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
97.0	40.0	31	55.0	117	50.0	CR	53	04	10	1456	138	445	3.11	100.0	8	78
97.0	45.0	31	39.5	118	09.0	CR	53	04	10	1121	147	382	3.85	100.0	31	319
97.0	50.0	31	27.0	118	26.0	CR	53	04	10	0906	130	407	3.20	100.0	19	405
97.0	55.0	31	19.0	118	45.0	CR	53	04	10	0536	132	459	2.87	50.0	9	83
97.0	60.0	31	09.0	119	06.8	CR	53	04	10	0316	135	429	3.15	100.0	94	130
97.0	70.0	30	55.0	119	51.0	CR	53	04	09	2141	133	447	2.99	100.0	52	58
97.0	80.0	30	37.0	120	28.0	CR	53	04	09	1626	141	440	3.20	100.0	15	111
97.0	90.0	30	22.0	121	08.5	CR	53	04	09	1141	146	429	3.41	100.0	52	288
100.0	29.0	31	42.0	116	43.5	CR	53	04	11	0108	68	244	2.81	100.0	118	89
100.0	30.0	31	40.5	116	47.0	CR	53	04	11	0221	138	440	3.13	50.0	115	48
100.0	35.0	31	29.0	117	08.5	CR	53	04	11	0506	136	438	3.11	100.0	41	871
100.0	40.0	31	20.0	117	29.0	CR	53	04	11	0836	143	417	3.44	100.0	35	38
100.0	45.0	31	12.0	117	46.0	CR	53	04	11	1031	138	407	3.39	100.0	19	79
100.0	50.0	31	02.0	118	07.0	CR	53	04	11	1406	133	434	3.06	100.0	14	22
100.0	55.0	30	54.0	118	23.0	CR	53	04	11	1616	144	411	3.50	100.0	20	19
100.0	60.0	30	42.5	118	48.0	CR	53	04	11	2016	134	471	2.84	100.0	9	6
100.0	70.0	30	22.0	119	28.0	CR	53	04	12	0242	128	458	2.81	100.0	85	98
100.0	80.0	30	02.0	120	08.0	CR	53	04	12	0741	133	491	2.71	100.0	21	90
100.0	90.0	29	39.0	120	49.0	CR	53	04	12	1256	129	468	2.76	100.0	22	27
103.0	35.0	30	52.0	116	43.0	CR	53	04	14	0102	135	483	2.79	100.0	35	718
103.0	40.0	30	44.5	117	04.3	CR	53	04	13	2141	131	479	2.73	100.0	18	34
103.0	45.0	30	38.0	117	23.0	CR	53	04	13	1841	126	503	2.50	100.0	106	95
103.0	50.0	30	27.0	117	46.0	CR	53	04	13	1616	131	481	2.71	100.0	43	71
103.0	55.0	30	19.0	118	05.0	CR	53	04	13	1321	136	450	3.03	100.0	20	67
103.0	60.0	30	09.0	118	27.0	CR	53	04	13	1131	141	454	3.11	100.0	56	30
103.0	70.0	29	48.0	119	07.0	CR	53	04	13	0636	135	469	2.89	100.0	54	141
103.0	80.0	29	27.0	119	45.5	CR	53	04	13	0116	126	478	2.64	100.0	53	253
107.0	32.0	30	26.0	116	10.5	CR	53	04	14	0821	138	448	3.08	100.0	59	102
107.0	35.0	30	20.0	116	23.0	CR	53	04	14	1026	128	474	2.71	100.0	120	1727
107.0	40.0	30	10.5	116	43.5	CR	53	04	14	1336	136	438	3.09	100.0	26	1010
107.0	45.0	30	01.0	117	02.5	CR	53	04	14	1751	136	447	3.04	100.0	28	253
107.0	50.0	29	50.5	117	23.5	CR	53	04	14	1921	138	448	3.08	100.0	30	63
107.0	55.0	29	39.0	117	44.0	CR	53	04	14	2141	145	429	3.37	100.0	45	164
107.0	60.0	29	27.5	118	05.5	CR	53	04	15	0106	130	467	2.79	100.0	48	430
107.0	70.0	29	11.0	118	43.0	CR	53	04	15	2121	128	469	2.72	6.0	2	562
107.0	80.0	28	53.0	119	18.5	CR	53	04	16	0406	131	467	2.80	100.0	117	844
107.0	90.0	28	28.0	120	05.0	CR	53	04	16	1101	144	438	3.29	100.0	24	296
110.0	33.0	29	49.5	115	53.5	CR	53	04	17	2357	102	342	2.97	50.0	24	60
110.0	35.0	29	46.0	116	00.0	CR	53	04	17	2251	113	468	2.41	50.0	143	278
110.0	40.0	29	36.5	116	19.5	CR	53	04	17	1926	149	357	4.18	100.0	161	1446
110.0	45.0	29	29.0	116	37.5	CR	53	04	17	1656	151	406	3.73	100.0	14	498
110.0	50.0	29	18.0	117	00.0	CR	53	04	17	1446	138	430	3.20	100.0	19	648
110.0	55.0	29	07.0	117	21.0	CR	53	04	17	1121	135	450	2.99	100.0	49	1119
110.0	60.0	28	58.0	117	40.0	CR	53	04	17	0916	141	426	3.32	100.0	34	822
110.0	70.0	28	36.0	118	24.0	CR	53	04	17	0356	142	444	3.20	100.0	45	255

TABLE 1. (cont.)

CalCOFI Cruise 5304

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
110.0	80.0	28	17.0	118	59.0	CR	53	04	16	2226	130	496	2.63	25.0	2	461
110.0	90.0	27	56.5	119	37.0	CR	53	04	16	1546	138	453	3.06	100.0	11	125
113.0	30.0	29	21.5	115	18.0	SB	53	04	15	0538	40	267	1.52	13.0	0	4
113.0	35.0	29	12.0	115	40.0	SB	53	04	15	0141	121	605	2.01	100.0	115	1032
113.0	40.0	29	02.0	115	58.8	SB	53	04	14	2231	145	458	3.16	100.0	51	1298
113.0	45.0	28	54.0	116	19.0	SB	53	04	14	2026	134	458	2.93	100.0	41	293
113.0	50.0	28	44.3	116	39.0	SB	53	04	14	1736	139	454	3.05	100.0	15	430
113.0	55.0	28	34.0	116	59.0	SB	53	04	14	1526	137	469	2.93	100.0	53	223
113.0	60.0	28	25.0	117	19.0	SB	53	04	14	1256	140	451	3.11	100.0	3	36
113.0	70.0	28	02.0	117	55.0	SB	53	04	14	0831	136	487	2.78	100.0	28	135
117.0	26.0	28	56.3	114	41.0	SB	53	04	13	0744	40	248	1.63	100.0	258	424
117.0	30.0	28	48.2	114	56.2	SB	53	04	13	0948	67	415	1.60	25.0	0	120
117.0	35.0	28	38.0	115	16.0	SB	53	04	13	1201	132	490	2.70	50.0	17	193
117.0	40.0	28	28.0	115	36.1	SB	53	04	13	1416	139	480	2.89	100.0	91	283
117.0	45.0	28	18.0	115	55.5	SB	53	04	13	1656	130	449	2.90	100.0	118	560
117.0	50.0	28	07.4	116	16.6	SB	53	04	13	1941	137	433	3.17	100.0	45	213
117.0	55.0	27	58.0	116	34.0	SB	53	04	13	2126	133	469	2.84	100.0	70	141
117.0	60.0	27	48.2	116	54.0	SB	53	04	13	2346	126	486	2.59	100.0	64	125
117.0	70.0	27	30.0	117	33.5	SB	53	04	14	0401	139	477	2.91	100.0	39	339
120.0	25.0	28	23.2	114	15.5	SB	53	04	13	0328	36	250	1.44	25.0	116	623
120.0	30.0	28	14.6	114	35.5	SB	53	04	13	0058	47	350	1.34	50.0	197	260
120.0	35.0	28	03.0	114	54.0	SB	53	04	12	2223	51	319	1.60	50.0	83	130
120.0	40.0	27	55.5	115	15.0	SB	53	04	12	2021	27	188	1.43	100.0	25	32
120.0	45.0	27	43.3	115	33.4	SB	53	04	12	1716	134	492	2.73	100.0	33	71
120.0	50.0	27	33.8	115	52.5	SB	53	04	12	1356	136	482	2.82	100.0	137	1515
120.0	55.0	27	17.0	116	07.0	SB	53	04	12	1126	133	468	2.85	100.0	100	415
120.0	60.0	27	12.2	116	29.5	SB	53	04	12	0841	132	491	2.70	100.0	39	385
120.0	70.0	26	59.0	117	10.0	SB	53	04	12	0326	109	603	1.81	100.0	88	10
120.0	80.0	26	37.0	117	51.0	SB	53	04	11	2231	131	492	2.67	100.0	80	87
120.0	90.0	26	16.0	118	31.0	SB	53	04	11	1721	137	545	2.52	100.0	16	34
123.0	37.0	27	24.2	114	39.8	SB	53	04	10	1653	39	287	1.37	25.0	3	20
123.0	40.0	27	18.3	114	51.2	SB	53	04	10	1826	132	443	2.99	100.0	33	70
123.0	45.0	27	08.7	115	10.0	SB	53	04	10	2126	121	484	2.50	100.0	207	72
123.0	50.0	26	58.0	115	30.5	SB	53	04	10	2336	133	466	2.85	100.0	46	59
123.0	55.0	26	48.0	115	51.0	SB	53	04	11	0256	127	556	2.29	100.0	200	105
123.0	60.0	26	36.9	116	13.0	SB	53	04	11	0511	146	520	2.80	100.0	18	56
127.0	34.0	26	55.2	114	06.0	SB	53	04	10	1213	55	344	1.59	100.0	29	80
127.0	40.0	26	43.2	114	28.2	SB	53	04	10	0851	142	445	3.18	100.0	32	85
127.0	45.0	26	34.1	114	48.0	SB	53	04	10	0626	134	482	2.78	100.0	41	57
127.0	50.0	26	24.2	115	07.0	SB	53	04	10	0326	120	532	2.26	100.0	294	226
127.0	55.0	26	13.5	115	27.0	SB	53	04	10	0111	121	504	2.40	100.0	43	75
127.0	60.0	26	04.0	115	47.0	SB	53	04	09	2206	134	486	2.75	100.0	100	431
130.0	30.0	26	30.5	113	29.5	SB	53	04	09	0013	50	364	1.39	50.0	38	152
130.0	35.0	26	19.2	113	48.5	SB	53	04	09	0226	127	482	2.64	100.0	19	48
130.0	40.0	26	10.0	114	06.0	SB	53	04	09	0501	133	488	2.73	100.0	59	169

TABLE 1. (cont.)

CalCOFI Cruise 5304

Line	Station	Lat.(N) deg.	Lat.(N) min.	Long.(W) deg.	Long.(W) min.	Ship Code	Tow Date yr.	Tow Date mo.	Tow Date day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
130.0	45.0	25	58.0	114	32.0	SB	53	04	09	0826	129	487	2.65	25.0	39	25
130.0	50.0	25	49.0	114	46.5	SB	53	04	09	1036	133	485	2.73	100.0	183	47
130.0	55.0	25	38.5	115	05.0	SB	53	04	09	1416	121	548	2.21	100.0	335	362
130.0	60.0	25	22.0	115	34.0	SB	53	04	09	1626	134	506	2.65	100.0	26	90
133.0	25.0	26	05.3	112	48.6	SB	53	04	08	1943	61	321	1.89	100.0	29	12
133.0	30.0	25	54.5	113	07.5	SB	53	04	08	1711	142	444	3.20	100.0	21	59
133.0	35.0	25	45.0	113	27.0	SB	53	04	08	1456	144	453	3.18	100.0	98	245
133.0	40.0	25	35.0	113	47.0	SB	53	04	08	1141	146	454	3.21	100.0	22	516
133.0	45.0	25	25.0	114	03.0	SB	53	04	08	0941	132	456	2.90	100.0	161	32
133.0	50.0	25	15.0	114	20.0	SB	53	04	08	0656	144	392	3.67	100.0	12	51
133.0	55.0	25	04.5	114	42.5	SB	53	04	08	0456	134	441	3.04	100.0	237	150
133.0	60.0	24	55.0	115	01.0	SB	53	04	08	0156	136	446	3.06	100.0	128	676
137.0	23.0	25	33.0	112	17.7	SB	53	04	07	0403	51	385	1.33	100.0	51	1267
137.0	30.0	25	20.0	112	45.8	SB	53	04	07	0656	142	477	2.98	100.0	35	46
137.0	35.0	25	10.0	113	04.8	SB	53	04	07	0926	140	475	2.94	100.0	47	96
137.0	40.0	25	02.6	113	23.4	SB	53	04	07	1146	136	487	2.79	100.0	8	288
137.0	45.0	24	51.0	113	43.0	SB	53	04	07	1426	151	381	3.96	100.0	11	166
137.0	50.0	24	39.5	114	03.0	SB	53	04	07	1631	145	458	3.16	100.0	27	38
137.0	55.0	24	29.9	114	21.0	SB	53	04	07	1921	128	500	2.56	100.0	22	41
137.0	60.0	24	20.0	114	39.5	SB	53	04	07	2126	137	473	2.90	100.0	128	38

TABLE 1. (cont.)

CalCOFI Cruise 5305

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	55.0	37	47.5	123	15.0	CR	53	05	06	1652	103	366	2.81	100.0	6	12
60.0	60.0	37	37.0	123	36.5	CR	53	05	06	1411	132	500	2.64	100.0	16	49
60.0	65.0	37	30.0	124	01.0	CR	53	05	06	1121	140	359	3.89	50.0	1	2
60.0	70.0	37	18.0	124	19.0	CR	53	05	06	0916	122	446	2.73	50.0	12	10
60.0	80.0	36	56.5	125	04.0	CR	53	05	06	0411	126	488	2.58	50.0	28	20
60.0	90.0	36	37.0	125	47.0	CR	53	05	05	2243	139	432	3.21	50.0	13	12
60.0	100.0	36	17.0	126	14.0	CR	53	05	05	1846	128	501	2.56	100.0	6	5
60.0	120.0	35	37.0	127	55.0	CR	53	05	05	0836	124	515	2.40	50.0	0	2
63.0	52.0	37	18.5	122	37.0	CR	53	05	06	2033	64	269	2.39	100.0	20	33
63.0	55.0	37	13.0	122	49.0	CR	53	05	06	2211	131	478	2.74	25.0	13	5
63.0	65.0	36	53.0	123	32.0	CR	53	05	07	0306	132	463	2.84	25.0	5	3
70.0	51.0	36	10.3	121	46.0	CR	53	05	03	0917	137	493	2.79	100.0	7	2
70.0	65.0	35	39.5	122	49.0	CR	53	05	03	1806	127	441	2.88	50.0	3	3
70.0	70.0	35	31.5	123	05.0	CR	53	05	03	2106	126	479	2.64	100.0	21	6
70.0	80.0	35	13.0	123	47.0	CR	53	05	04	0306	132	490	2.70	100.0	7	10
70.0	90.0	34	56.0	124	32.0	CR	53	05	04	0756	127	477	2.66	50.0	1	11
70.0	100.0	34	40.0	125	13.0	CR	53	05	04	1151	110	535	2.06	100.0	3	11
70.0	110.0	34	20.0	125	55.0	CR	53	05	04	1646	111	517	2.14	100.0	1	7
77.0	50.0	35	04.5	120	52.0	CR	53	05	02	0736	133	424	3.13	100.0	1	33
77.0	55.0	34	56.0	121	14.0	CR	53	05	02	1051	148	443	3.35	50.0	7	5
77.0	60.0	34	44.0	121	35.0	CR	53	05	02	1316	139	449	3.09	100.0	14	3
80.0	51.0	34	26.5	120	32.5	HO	53	05	11	1838	66	260	2.55	100.0	3	4
80.0	55.0	34	20.0	120	47.5	HO	53	05	11	1536	138	421	3.28	100.0	21	48
80.0	60.0	34	09.1	121	10.8	HO	53	05	11	1156	104	604	1.73	50.0	7	11
80.0	70.0	33	48.7	121	53.0	HO	53	05	11	0626	145	461	3.14	50.0	4	6
80.0	80.0	33	28.0	122	33.0	HO	53	05	11	0126	147	481	3.06	50.0	14	253
80.0	90.0	33	06.0	123	01.6	HO	53	05	10	2021	137	489	2.80	50.0	13	229
80.0	100.0	32	30.7	123	57.4	HO	53	05	10	1156	85	652	1.31	100.0	24	137
80.0	110.0	32	25.0	124	27.0	HO	53	05	10	0756	148	452	3.28	100.0	5	84
80.0	120.0	32	06.2	125	16.0	HO	53	05	10	0156	125	518	2.40	100.0	63	85
80.0	130.0	31	45.8	126	01.0	HO	53	05	09	1956	136	450	3.02	100.0	29	179
80.0	138.0	31	31.0	126	28.0	HO	53	05	09	1651	132	503	2.62	100.0	35	48
80.0	145.0	31	13.2	127	00.0	HO	53	05	09	1211	134	495	2.71	100.0	61	64
80.0	153.0	31	00.0	127	29.6	HO	53	05	09	0846	140	464	3.01	100.0	62	45
80.0	160.0	30	46.1	127	59.1	HO	53	05	09	0436	145	476	3.04	100.0	70	143
83.0	40.0	34	14.0	119	22.0	HO	53	05	14	1929	20	99	1.99	100.0	99	103
83.0	43.0	34	08.2	119	36.0	HO	53	05	14	1726	123	506	2.44	25.0	8	22
83.0	43.0	34	08.0	119	34.0	PT	53	05	27	1126	108	574	1.88	50.0	5	4
83.0	48.0	33	59.3	119	55.4	PT	53	05	28	0918	50	229	2.18	100.0	36	167
83.0	48.0	33	58.3	119	55.0	HO	53	05	16	0128	54	391	1.39	25.0	35	52
83.0	51.0	33	52.3	120	08.0	PT	53	05	28	1128	58	318	1.84	100.0	11	186
83.0	51.0	33	52.0	120	09.0	HO	53	05	16	0341	145	489	2.96	100.0	58	147
83.0	55.0	33	44.7	120	24.5	HO	53	05	16	0611	121	497	2.44	100.0	44	15
83.0	55.0	33	44.0	120	24.5	PT	53	05	28	1426	132	504	2.56	50.0	3	4
83.0	60.0	33	36.2	120	46.0	HO	53	05	16	0941	135	467	2.88	100.0	8	2

TABLE 1. (cont.)

CalCOFI Cruise 5305

Line	Station	Lat.(N) deg.	Lat.(N) min.	Long.(W) deg.	Long.(W) min.	Ship Code	Tow Date yr.	Tow Date mo.	Tow Date day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
83.0	60.0	33	34.7	120	43.1	PT	53	05	28	1756	160	393	4.07	50.0	5	5
83.0	70.0	33	13.8	121	26.8	HO	53	05	16	1456	123	507	2.43	100.0	8	58
83.0	80.0	32	54.8	122	11.0	HO	53	05	16	2001	103	619	1.66	50.0	10	244
83.0	90.0	32	35.0	122	47.4	HO	53	05	17	0026	134	470	2.86	100.0	25	692
85.0	39.0	34	00.0	119	04.0	PT	53	05	27	1726	131	526	2.48	100.0	6	254
85.0	39.0	34	00.2	119	04.0	HO	53	05	14	2146	143	468	3.06	25.0	9	4
85.0	40.0	33	56.5	119	10.2	PT	53	05	27	2031	110	497	2.21	50.0	19	8
85.0	40.0	33	56.3	119	10.8	HO	53	05	15	1636	144	445	3.23	100.0	9	7
85.0	45.0	33	46.7	119	31.0	HO	53	05	15	2101	132	514	2.56	25.0	52	4
85.0	45.0	33	47.0	119	33.3	PT	53	05	27	0510	171	359	4.76	50.0	0	7
85.0	50.0	33	38.7	119	55.6	HO	53	05	14	1106	121	516	2.35	100.0	7	10
85.0	50.0	33	34.8	119	50.4	PT	53	05	26	2351	135	512	2.64	25.0	17	11
85.0	55.0	33	25.8	120	11.4	PT	53	05	26	1931	131	612	2.14	50.0	24	22
85.0	60.0	33	17.0	120	33.5	HO	53	05	14	0241	143	471	3.04	25.0	25	24
85.0	60.0	33	16.8	120	33.3	PT	53	05	26	1511	143	504	2.84	25.0	5	5
87.0	35.0	33	51.1	118	36.4	HO	53	05	18	1133	34	234	1.45	100.0	2	5
87.0	35.0	33	49.0	118	37.7	PT	53	05	29	1546	134	412	3.25	100.0	15	18
87.0	40.0	33	40.0	118	58.5	PT	53	05	29	1251	130	522	2.48	100.0	1	9
87.0	40.0	33	40.0	118	58.5	HO	53	05	18	0836	79	521	1.52	25.0	3	14
87.0	45.0	33	30.2	119	20.4	HO	53	05	18	0546	101	532	1.90	50.0	6	1
87.0	45.0	33	30.5	119	18.0	PT	53	05	29	0941	136	468	2.90	50.0	18	5
87.0	50.0	33	20.0	119	39.3	PT	53	05	29	0628	57	128	4.44	50.0	14	23
87.0	50.0	33	21.2	119	37.5	HO	53	05	18	0318	53	325	1.62	50.0	37	4
87.0	55.0	33	00.8	119	59.5	HO	53	05	17	2311	120	552	2.16	50.0	40	5
87.0	55.0	33	12.5	119	55.5	PT	53	05	29	0326	138	412	3.35	50.0	12	34
87.0	60.0	32	55.9	120	23.9	HO	53	05	17	2006	139	477	2.90	25.0	9	35
87.0	60.0	33	01.8	120	18.0	PT	53	05	28	2336	141	482	2.92	100.0	28	750
87.0	70.0	32	41.0	121	01.7	HO	53	05	17	1551	113	563	2.00	100.0	12	153
87.0	80.0	32	10.0	121	44.5	HO	53	05	17	0956	120	529	2.27	100.0	15	57
87.0	90.0	31	57.2	122	17.1	HO	53	05	17	0606	129	491	2.63	100.0	13	211
90.0	28.0	33	28.5	117	46.6	HO	53	05	05	1928	32	243	1.34	50.0	37	10
90.0	30.0	33	23.1	117	55.3	HO	53	05	05	2116	80	660	1.21	50.0	31	4
90.0	35.0	33	13.8	118	16.0	HO	53	05	06	0126	113	999	1.05	25.0	74	11
90.0	41.0	33	02.8	118	40.0	HO	53	05	06	0456	123	509	2.42	100.0	152	70
90.0	45.0	32	54.6	118	56.4	HO	53	05	06	0646	143	440	3.25	50.0	28	56
90.0	50.0	32	46.3	119	16.8	HO	53	05	06	1016	136	470	2.90	100.0	21	77
90.0	55.0	32	35.1	119	41.0	HO	53	05	06	1256	117	432	2.71	100.0	25	53
90.0	60.0	32	25.0	119	57.7	HO	53	05	06	1426	137	465	2.95	50.0	12	27
90.0	70.0	32	03.0	120	39.0	HO	53	05	06	1926	103	549	1.88	100.0	40	172
90.0	80.0	31	42.0	121	20.0	HO	53	05	07	0106	137	365	3.76	50.0	14	364
90.0	90.0	31	25.0	121	59.0	HO	53	05	07	0551	127	514	2.46	100.0	6	276
90.0	100.0	31	08.0	122	42.0	HO	53	05	07	1026	134	478	2.81	100.0	5	57
90.0	110.0	30	46.7	123	19.2	HO	53	05	07	1512	138	482	2.86	100.0	19	128
90.0	120.0	30	24.9	124	01.0	HO	53	05	07	2016	124	509	2.44	100.0	58	288
90.0	130.0	30	02.7	124	43.4	HO	53	05	08	0111	141	461	3.06	100.0	18	54

TABLE 1. (cont.)

CalCOFI Cruise 5305

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
90.0	139.0	29	46.7	125	14.5	HO	53	05	08	0556	137	488	2.81	100.0	20	103
90.0	145.0	29	33.5	125	40.0	HO	53	05	08	0856	161	426	3.77	100.0	35	96
90.0	152.5	29	18.5	126	08.9	HO	53	05	08	1246	126	511	2.46	100.0	35	99
90.0	160.0	29	03.8	126	41.0	HO	53	05	08	1536	110	576	1.91	100.0	82	222
93.0	27.0	32	56.0	117	19.0	YE	53	05	06	1726	106	460	2.30	100.0	10	309
93.0	30.0	32	50.0	117	31.2	YE	53	05	06	2156	117	615	1.90	50.0	18	38
93.0	35.0	32	42.0	117	49.0	YE	53	05	07	0033	140	668	2.09	50.0	68	74
93.0	40.0	32	30.0	118	12.7	YE	53	05	07	0446	114	514	2.21	100.0	6	31
93.0	45.0	32	17.0	118	34.0	YE	53	05	07	0726	126	590	2.13	50.0	5	449
93.0	50.0	32	10.0	118	53.2	YE	53	05	07	1216	141	534	2.64	50.0	41	993
93.0	60.0	31	50.0	119	34.0	YE	53	05	09	0802	125	530	2.36	50.0	6	281
97.0	30.0	32	15.3	117	08.0	YE	53	05	10	2158	56	301	1.87	100.0	62	37
97.0	35.0	32	05.0	117	29.2	YE	53	05	10	1910	133	535	2.48	50.0	36	119
97.0	40.0	31	55.4	117	50.4	YE	53	05	10	1254	139	487	2.85	100.0	18	230
97.0	45.0	31	41.0	118	07.0	YE	53	05	10	0920	149	452	3.31	100.0	17	430
97.0	50.0	31	35.6	118	30.2	YE	53	05	10	0641	150	463	3.23	50.0	2	565
97.0	60.0	31	15.3	119	10.7	YE	53	05	09	2056	160	487	3.28	50.0	5	96
97.0	70.0	30	55.0	119	50.4	YE	53	05	09	1416	144	511	2.82	100.0	12	148
100.0	29.0	31	42.2	116	43.4	YE	53	05	11	0317	79	301	2.63	100.0	40	33
100.0	30.0	31	40.3	116	46.5	YE	53	05	11	0505	133	518	2.56	100.0	32	28
100.0	35.0	31	30.0	117	09.0	YE	53	05	11	0739	135	528	2.55	100.0	3	29
100.0	40.0	31	21.5	117	27.0	YE	53	05	11	1209	145	474	3.06	100.0	4	48
100.0	45.0	31	14.0	117	45.5	YE	53	05	11	1436	149	470	3.16	100.0	6	95
100.0	50.0	31	01.0	118	07.0	YE	53	05	11	1841	130	527	2.47	100.0	5	79
100.0	55.0	30	53.0	118	29.0	YE	53	05	11	2137	150	460	3.26	50.0	9	55
100.0	60.0	30	41.0	118	47.0	YE	53	05	12	0136	145	473	3.06	50.0	9	73
100.0	70.0	30	20.0	119	27.0	YE	53	05	12	0752	139	433	3.20	50.0	15	59
100.0	80.0	30	01.0	120	07.0	YE	53	05	12	1316	144	479	3.00	100.0	27	105
100.0	90.0	29	40.0	120	47.0	YE	53	05	12	1846	145	479	3.03	100.0	21	125
103.0	30.0	31	05.0	116	25.0	YE	53	05	14	1028	54	232	2.34	100.0	38	1370
103.0	35.0	30	55.0	116	45.0	YE	53	05	14	0641	135	468	2.89	100.0	80	1061
103.0	40.0	30	45.3	117	05.2	YE	53	05	14	0311	142	474	2.99	100.0	39	198
103.0	45.0	30	35.5	117	24.0	YE	53	05	14	0026	133	513	2.60	100.0	86	683
103.0	50.0	30	25.0	117	45.4	YE	53	05	13	2111	142	494	2.87	100.0	142	255
103.0	55.0	30	16.0	118	06.5	YE	53	05	13	1902	138	439	3.16	50.0	17	93
103.0	60.0	30	06.3	118	25.4	YE	53	05	13	1556	135	474	2.85	50.0	9	41
103.0	70.0	29	46.0	119	05.5	YE	53	05	13	1030	141	510	2.76	100.0	48	190
103.0	80.0	29	26.0	119	45.5	YE	53	05	13	0521	128	525	2.44	100.0	37	222
103.0	90.0	29	06.0	120	25.5	YE	53	05	12	2341	141	471	2.99	100.0	32	121
107.0	32.0	30	25.4	116	11.2	YE	53	05	14	1541	142	465	3.06	100.0	12	162
107.0	35.0	30	20.0	116	23.2	YE	53	05	14	1756	130	501	2.60	100.0	61	215
107.0	40.0	30	10.3	116	43.2	YE	53	05	14	2116	147	412	3.58	50.0	2	35
107.0	45.0	30	01.0	117	04.0	YE	53	05	15	0006	139	455	3.07	50.0	8	33
107.0	50.0	29	50.5	117	23.5	YE	53	05	15	0236	143	462	3.10	100.0	79	112
107.0	55.0	29	41.0	117	42.5	YE	53	05	15	0556	152	449	3.38	50.0	12	146

TABLE 1. (cont.)

CalCOFI Cruise 5305

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
107.0	60.0	29	31.2	118	03.4	YE	53	05	15	0906	147	450	3.27	100.0	10	159
107.0	70.0	29	11.0	118	43.0	YE	53	05	15	1402	139	466	2.99	100.0	30	125
107.0	80.0	28	51.0	119	22.3	YE	53	05	15	2041	138	491	2.82	100.0	35	419
107.0	90.0	28	32.0	120	01.2	YE	53	05	16	0236	145	458	3.18	100.0	41	42
110.0	35.0	29	46.2	116	00.0	YE	53	05	17	1846	147	431	3.40	100.0	35	59
110.0	40.0	29	36.5	116	19.4	YE	53	05	17	1541	140	493	2.85	100.0	34	98
110.0	45.0	29	29.0	116	37.5	YE	53	05	17	1221	139	531	2.62	100.0	30	80
110.0	50.0	29	16.5	116	59.0	YE	53	05	17	0951	137	493	2.78	100.0	157	422
110.0	55.0	29	05.0	117	20.0	YE	53	05	17	0512	144	484	2.97	100.0	43	62
110.0	60.0	28	56.0	117	39.2	YE	53	05	17	0235	140	488	2.88	100.0	5	32
110.0	70.0	28	36.3	118	18.2	YE	53	05	16	1936	134	485	2.77	100.0	20	29
110.0	80.0	28	16.4	118	57.4	YE	53	05	16	1309	139	577	2.41	100.0	25	84
110.0	90.0	27	56.5	119	36.0	YE	53	05	16	0740	132	510	2.59	100.0	13	187
113.0	30.0	29	20.5	115	19.5	PT	53	05	20	1158	60	261	2.29	100.0	10	106
113.0	35.0	29	11.0	115	38.5	PT	53	05	20	0841	132	491	2.68	50.0	25	25
113.0	40.0	29	01.8	115	58.0	PT	53	05	20	0446	136	436	3.13	100.0	132	127
113.0	45.0	28	51.2	116	17.0	PT	53	05	20	0041	138	461	2.98	100.0	281	78
113.0	50.0	28	42.0	116	37.0	PT	53	05	19	2131	122	522	2.33	50.0	132	35
113.0	55.0	28	31.5	116	56.5	PT	53	05	19	1736	144	466	3.08	100.0	0	11
113.0	60.0	28	21.8	117	16.2	PT	53	05	19	1436	126	531	2.37	100.0	44	104
113.0	70.0	27	59.0	117	53.0	PT	53	05	19	0801	134	460	2.91	100.0	52	174
117.0	26.0	28	57.0	114	40.2	PT	53	05	17	2148	57	246	2.34	13.0	21	33
117.0	30.0	28	48.0	114	55.0	PT	53	05	18	0022	84	379	2.22	50.0	5	256
117.0	35.0	28	36.5	115	15.0	PT	53	05	18	0356	122	516	2.37	100.0	165	38
117.0	40.0	28	26.0	115	35.8	PT	53	05	18	0726	134	506	2.65	100.0	32	91
117.0	45.0	28	16.5	115	55.0	PT	53	05	18	1006	133	462	2.89	50.0	22	299
117.0	50.0	28	07.5	116	15.0	PT	53	05	18	1331	120	438	2.75	100.0	205	537
117.0	55.0	27	58.0	116	34.0	PT	53	05	18	1606	125	476	2.62	100.0	12	56
117.0	60.0	27	48.0	116	53.5	PT	53	05	18	1931	125	524	2.38	100.0	10	172
117.0	70.0	27	30.0	117	33.7	PT	53	05	19	0116	125	495	2.52	100.0	49	43
120.0	25.0	28	21.5	114	17.5	PT	53	05	17	1508	44	232	1.88	100.0	79	546
120.0	30.0	28	12.5	114	35.5	PT	53	05	17	1208	85	316	2.70	50.0	24	770
120.0	35.0	28	03.0	114	54.0	PT	53	05	17	0858	74	230	3.24	50.0	17	335
120.0	40.0	27	53.0	115	24.0	PT	53	05	17	0518	69	341	2.02	50.0	12	26
120.0	45.0	27	44.0	115	30.2	PT	53	05	17	0231	129	466	2.76	50.0	45	80
120.0	50.0	27	32.0	115	42.0	PT	53	05	16	2256	138	468	2.96	50.0	220	650
120.0	55.0	27	22.8	116	05.5	PT	53	05	16	1836	138	513	2.68	100.0	4	72
120.0	60.0	27	14.0	116	27.0	PT	53	05	16	1526	135	491	2.76	100.0	36	167
120.0	70.0	26	55.0	117	09.5	PT	53	05	16	0851	136	473	2.87	100.0	12	40
120.0	80.0	26	35.0	117	47.0	PT	53	05	16	0216	128	524	2.45	100.0	36	175
120.0	90.0	26	13.0	118	28.0	PT	53	05	15	1851	131	493	2.66	100.0	19	197
123.0	37.0	27	23.3	114	39.0	PT	53	05	14	0848	64	288	2.24	100.0	1	90
123.0	40.0	27	17.0	114	48.5	PT	53	05	14	1126	124	542	2.28	50.0	9	31
123.0	45.0	27	07.2	115	06.5	PT	53	05	14	1406	121	510	2.38	100.0	63	123
123.0	50.0	26	56.5	115	25.0	PT	53	05	14	1731	133	438	3.04	100.0	220	895

TABLE 1. (cont.)

CalCOFI Cruise 5305

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
123.0	55.0	26 47.8	115 43.0	PT	53 05 14	2016	134	472	2.84	100.0	39	74
123.0	60.0	26 36.5	116 00.0	PT	53 05 14	2346	122	536	2.28	100.0	96	122
127.0	34.0	26 54.5	114 05.7	PT	53 05 14	0203	64	245	2.60	100.0	53	70
127.0	40.0	26 40.5	114 27.0	PT	53 05 13	2200	131	507	2.59	50.0	31	70
127.0	45.0	26 33.5	114 45.5	PT	53 05 13	1741	128	518	2.47	100.0	389	205
127.0	50.0	26 24.0	115 07.5	PT	53 05 13	1436	119	564	2.11	100.0	22	366
127.0	55.0	26 08.5	115 18.2	PT	53 05 13	1106	138	514	2.69	100.0	10	56
127.0	60.0	26 02.0	115 39.0	PT	53 05 13	0801	141	478	2.94	100.0	8	19
130.0	30.0	26 28.0	113 30.5	PT	53 05 12	0553	44	275	1.59	100.0	1	45
130.0	35.0	26 17.5	113 48.5	PT	53 05 12	0856	134	554	2.37	100.0	3	1065
130.0	40.0	26 08.5	114 06.0	PT	53 05 12	1216	130	493	2.65	100.0	24	75
130.0	45.0	25 58.2	114 22.5	PT	53 05 12	1501	143	424	3.38	100.0	32	292
130.0	50.0	25 47.0	114 40.0	PT	53 05 12	1846	129	490	2.64	100.0	117	128
130.0	55.0	25 38.4	115 02.0	PT	53 05 12	2126	142	456	3.12	100.0	100	33
130.0	60.0	25 29.5	115 24.0	PT	53 05 13	0111	132	504	2.62	100.0	27	51
133.0	25.0	26 02.0	112 46.3	PT	53 05 10	2038	62	270	2.29	50.0	4	1
133.0	30.0	25 57.0	113 10.0	PT	53 05 10	1631	113	529	2.14	100.0	4	16
133.0	35.0	25 50.6	113 31.5	PT	53 05 10	1149	138	492	2.80	100.0	13	8
133.0	40.0	25 39.5	113 49.2	PT	53 05 10	0804	128	529	2.42	100.0	31	259
133.0	45.0	25 28.5	114 08.0	PT	53 05 10	0331	118	576	2.06	100.0	50	80
133.0	50.0	25 16.8	114 26.0	PT	53 05 10	0011	133	494	2.69	100.0	199	284
133.0	55.0	25 05.5	114 43.5	PT	53 05 09	1930	122	622	1.97	100.0	129	207
133.0	60.0	24 54.5	115 02.0	PT	53 05 09	1600	138	500	2.75	100.0	5	3781
137.0	23.0	25 34.2	112 18.7	PT	53 05 08	0158	41	249	1.63	50.0	2	2
137.0	30.0	25 18.5	112 45.0	PT	53 05 08	0751	130	541	2.41	100.0	10	16
137.0	35.0	25 16.0	112 55.0	PT	53 05 08	0941	132	537	2.45	100.0	5	81
137.0	40.0	25 03.0	113 21.5	PT	53 05 08	1331	143	466	3.07	100.0	3	43
137.0	45.0	24 49.1	113 41.3	PT	53 05 08	1616	165	520	3.18	100.0	5	415
137.0	50.0	24 40.0	114 02.0	PT	53 05 08	2012	140	515	2.71	50.0	6	32
137.0	55.0	24 27.2	114 19.0	PT	53 05 09	0103	137	497	2.75	100.0	31	478
137.0	60.0	24 13.0	114 36.0	PT	53 05 09	0501	144	455	3.16	100.0	27	1455

TABLE 1. (cont.)

CalCOFI Cruise 5306

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	55.0	37	47.5	123	15.0	CR	53	06	15	1051	124	464	2.67	100.0	25	11
60.0	60.0	37	37.0	123	37.0	CR	53	06	17	1311	127	543	2.33	100.0	31	63
60.0	65.0	37	27.5	123	59.0	CR	53	06	17	1526	146	494	2.96	100.0	27	23
63.0	52.0	37	19.0	122	36.5	CR	53	06	14	1228	63	264	2.40	100.0	4	25
63.0	55.0	37	12.0	122	48.0	CR	53	06	14	1056	140	488	2.87	100.0	14	3
63.0	60.0	37	02.4	123	09.8	CR	53	06	14	0826	135	465	2.90	100.0	30	23
63.0	65.0	36	53.0	123	31.5	CR	53	06	14	0621	141	522	2.70	100.0	32	10
67.0	50.0	36	48.0	122	06.0	CR	53	06	13	1836	155	531	2.91	100.0	3	10
67.0	55.0	36	38.5	122	27.0	CR	53	06	13	2111	137	529	2.59	100.0	17	27
67.0	60.0	36	28.5	122	48.5	CR	53	06	13	2311	145	486	2.97	50.0	14	8
67.0	65.0	36	19.0	123	09.0	CR	53	06	14	0156	139	495	2.82	50.0	13	13
70.0	51.0	36	10.5	121	48.0	CR	53	06	13	1301	143	649	2.21	100.0	3	2
70.0	55.0	36	03.0	122	02.0	CR	53	06	13	1046	151	522	2.90	50.0	2	23
70.0	60.0	35	50.0	122	23.5	CR	53	06	13	0721	138	506	2.73	50.0	42	17
70.0	65.0	35	39.0	122	43.5	CR	53	06	13	0356	146	472	3.09	50.0	6	146
70.0	70.0	35	32.0	123	05.0	CR	53	06	13	0131	135	523	2.58	25.0	5	2
70.0	80.0	35	17.0	123	50.0	CR	53	06	12	2006	142	495	2.88	100.0	22	33
70.0	90.0	34	53.0	124	30.0	CR	53	06	12	1521	143	503	2.84	100.0	11	23
70.0	100.0	34	31.5	125	11.0	CR	53	06	12	1036	139	527	2.65	50.0	9	22
73.0	50.0	35	36.0	121	16.0	CR	53	06	09	2017	75	434	1.72	50.0	8	11
73.0	55.0	35	26.5	121	37.5	CR	53	06	09	2236	131	520	2.52	100.0	25	52
73.0	60.0	35	18.0	121	58.5	CR	53	06	10	0201	109	550	1.99	50.0	12	50
77.0	50.0	35	04.5	120	52.0	CR	53	06	10	1457	87	421	2.07	50.0	1	11
77.0	55.0	34	55.0	121	12.0	CR	53	06	10	1226	138	458	3.02	50.0	4	16
77.0	60.0	34	41.5	121	33.5	CR	53	06	10	0926	138	450	3.08	100.0	7	48
77.0	65.0	34	30.0	121	54.5	CR	53	06	10	0701	129	379	3.40	50.0	8	37
80.0	51.0	34	26.5	120	32.5	CR	53	06	10	1912	86	324	2.66	100.0	4	23
80.0	55.0	34	19.5	120	48.0	CR	53	06	10	2201	127	442	2.86	50.0	4	6
80.0	60.0	34	09.0	121	09.0	CR	53	06	11	0111	128	483	2.65	50.0	10	146
80.0	65.0	33	59.0	121	30.0	CR	53	06	11	0326	132	390	3.38	100.0	17	67
80.0	70.0	33	49.5	121	50.0	CR	53	06	11	0611	132	497	2.65	100.0	8	93
80.0	80.0	33	29.0	122	30.0	CR	53	06	11	1116	141	486	2.91	100.0	13	81
80.0	90.0	33	09.0	123	13.0	CR	53	06	11	1556	139	484	2.88	25.0	5	43
80.0	100.0	32	49.0	123	54.0	CR	53	06	11	2126	130	489	2.66	100.0	17	44
83.0	40.0	34	14.0	119	22.0	YE	53	06	12	2200	14	61	2.30	100.0	2	137
83.0	43.0	34	08.0	119	34.0	YE	53	06	12	2006	144	442	3.25	50.0	6	17
83.0	48.0	33	58.0	119	55.0	YE	53	06	12	1326	148	413	3.59	100.0	5	34
83.0	51.0	33	52.2	120	05.6	ES	53	07	02	1248	72	252	2.86	100.0	0	57
83.0	51.0	33	53.0	120	08.0	YE	53	06	12	1052	109	347	3.14	50.0	4	49
83.0	55.0	33	44.0	120	24.0	YE	53	06	12	0755	140	402	3.48	12.5	1	1
83.0	60.0	33	34.0	120	45.0	YE	53	06	12	0406	142	389	3.66	50.0	10	26
83.0	65.0	33	25.0	121	05.0	YE	53	06	12	0001	146	383	3.83	50.0	37	33
83.0	70.0	33	14.1	121	26.0	YE	53	06	11	2116	139	435	3.20	50.0	27	71
83.0	80.0	32	53.5	122	07.0	YE	53	06	11	1521	136	448	3.04	50.0	32	133
83.0	90.0	32	34.0	122	48.0	YE	53	06	11	0911	139	454	3.06	100.0	18	187

TABLE 1. (cont.)

CalCOFI Cruise 5306

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
85.0	39.0	34 00.0	119 04.0	YE	53 06 11	2326	140	452	3.10	25.0	9	1
85.0	39.0	34 00.0	119 04.0	ES	53 07 01	2226	112	515	2.17	6.0	1	5
85.0	40.0	33 57.0	119 10.5	YE	53 06 11	0136	135	470	2.88	25.0	10	4
85.0	45.0	33 47.0	119 31.0	YE	53 06 10	0646	124	501	2.48	50.0	9	0
85.0	45.0	33 47.0	119 31.2	ES	53 07 02	0421	123	532	2.30	100.0	0	0
85.0	50.0	33 31.2	119 56.5	ES	53 07 02	0916	138	434	3.19	100.0	0	2
85.0	50.0	33 37.0	119 52.0	YE	53 06 10	1023	73	242	3.03	100.0	11	2
85.0	55.0	33 27.0	120 12.0	YE	53 06 10	1356	138	458	3.02	50.0	5	18
85.0	60.0	33 16.5	120 33.0	YE	53 06 10	1811	115	458	2.51	50.0	8	1
87.0	35.0	33 50.0	118 37.5	ES	53 07 01	1816	136	498	2.74	12.5	3	58
87.0	35.0	33 50.0	118 37.5	YE	53 06 09	1911	143	480	2.97	50.0	0	0
87.0	40.0	33 40.0	118 58.5	YE	53 06 09	1535	132	457	2.90	50.0	2	0
87.0	40.0	33 40.0	118 58.5	ES	53 07 01	1501	135	512	2.64	50.0	1	1
87.0	45.0	33 30.0	119 19.0	ES	53 07 01	1156	139	492	2.83	50.0	1	2
87.0	45.0	33 30.0	119 19.0	YE	53 06 09	1235	139	490	2.83	50.0	3	11
87.0	50.0	33 20.0	119 39.5	YE	53 06 09	0823	69	262	2.62	13.0	1	6
87.0	55.0	33 10.0	120 00.5	YE	53 06 09	0511	141	482	2.92	50.0	0	0
87.0	60.0	33 00.4	120 21.1	YE	53 06 09	0056	150	433	3.47	100.0	17	62
87.0	65.0	32 52.5	120 36.0	YE	53 06 08	2056	160	340	4.71	100.0	36	383
87.0	70.0	32 39.8	121 01.6	YE	53 06 08	1746	144	432	3.34	50.0	7	40
87.0	90.0	31 59.8	122 24.6	YE	53 06 08	0456	134	480	2.79	100.0	5	112
90.0	28.0	33 28.5	117 46.7	YE	53 06 05	1856	115	494	2.32	25.0	7	17
90.0	30.0	33 24.5	117 55.0	YE	53 06 05	2120	127	506	2.50	25.0	8	7
90.0	37.0	33 11.0	118 23.5	YE	53 06 06	0156	136	491	2.77	50.0	4	6
90.0	45.0	32 54.6	118 57.0	YE	53 06 06	0756	145	462	3.14	25.0	4	18
90.0	50.0	32 44.6	119 16.7	YE	53 06 06	1151	142	426	3.33	50.0	1	18
90.0	55.0	32 35.0	119 37.0	YE	53 06 06	1526	137	433	3.16	50.0	32	14
90.0	60.0	32 25.0	119 57.0	YE	53 06 06	1956	145	444	3.25	50.0	11	14
90.0	65.0	32 13.0	120 22.5	YE	53 06 06	2216	147	429	3.42	50.0	12	11
90.0	80.0	31 45.0	121 19.0	YE	53 06 07	0846	136	475	2.86	100.0	34	63
90.0	90.0	31 25.0	121 59.0	YE	53 06 07	1501	148	424	3.49	100.0	11	240
93.0	27.0	32 55.7	117 20.7	PT	53 06 10	2238	137	494	2.78	50.0	57	802
93.0	30.0	32 49.2	117 32.6	PT	53 06 11	0051	127	479	2.65	50.0	28	46
93.0	35.0	32 36.5	117 56.5	PT	53 06 11	0416	143	434	3.30	100.0	57	143
93.0	40.0	32 28.0	118 12.5	PT	53 06 11	0833	142	432	3.28	100.0	4	165
93.0	45.0	32 18.5	118 32.0	PT	53 06 11	1116	135	469	2.88	50.0	2	63
93.0	50.0	32 07.0	118 47.5	PT	53 06 11	1506	129	531	2.43	25.0	2	14
93.0	55.0	31 57.0	119 03.0	PT	53 06 11	1751	140	467	3.00	50.0	31	30
93.0	60.0	31 46.0	119 18.0	PT	53 06 11	2301	137	451	3.04	50.0	10	86
93.0	65.0	31 36.5	119 32.0	PT	53 06 12	0036	124	540	2.30	50.0	30	113
93.0	70.0	31 26.0	119 47.0	PT	53 06 12	0456	131	497	2.64	50.0	24	149
93.0	80.0	30 48.0	120 41.5	PT	53 06 12	1256	126	616	2.04	100.0	99	260
93.0	90.0	30 47.5	121 33.5	PT	53 06 12	2026	143	442	3.23	100.0	22	135
97.0	30.0	32 14.3	117 08.0	PT	53 06 15	0008	55	232	2.37	100.0	35	310
97.0	35.0	32 08.5	117 20.0	PT	53 06 14	2151	145	421	3.45	100.0	38	149

TABLE 1. (cont.)

CalCOFI Cruise 5306

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
97.0	40.0	31	57.0	117	46.0	PT	53	06	14	1637	140	435	3.22	100.0	5	291
97.0	45.0	31	45.0	118	10.0	PT	53	06	14	1216	135	431	3.14	50.0	2	104
97.0	50.0	31	35.5	118	31.0	PT	53	06	14	0906	140	412	3.41	50.0	17	801
97.0	60.0	31	16.0	119	11.5	PT	53	06	14	0126	139	495	2.81	50.0	70	257
97.0	65.0	31	07.0	119	32.0	PT	53	06	13	2141	143	504	2.83	100.0	121	333
97.0	70.0	30	56.5	119	52.5	PT	53	06	13	1816	142	473	3.00	100.0	30	135
97.0	80.0	30	36.8	120	33.4	PT	53	06	13	1101	150	462	3.26	100.0	11	168
97.0	90.0	30	18.5	121	11.0	PT	53	06	13	0156	125	475	2.63	100.0	108	114
100.0	29.0	31	42.2	116	43.5	PT	53	06	15	0620	76	235	3.22	100.0	2	48
100.0	30.0	31	40.5	116	46.6	PT	53	06	15	0806	146	466	3.14	100.0	5	43
100.0	35.0	31	29.0	117	05.0	PT	53	06	15	1056	123	601	2.05	50.0	25	105
100.0	40.0	31	17.0	117	24.7	PT	53	06	15	1446	135	478	2.83	100.0	28	35
100.0	45.0	31	06.0	117	43.0	PT	53	06	15	1741	143	472	3.04	50.0	21	54
100.0	50.0	30	54.3	118	02.5	PT	53	06	15	2136	141	460	3.07	25.0	12	121
100.0	55.0	30	44.0	118	19.0	PT	53	06	16	0036	122	533	2.29	50.0	27	219
100.0	60.0	30	32.0	118	37.5	PT	53	06	16	0441	149	421	3.55	50.0	2	86
100.0	65.0	30	21.0	118	57.0	PT	53	06	16	0746	145	437	3.32	50.0	7	81
100.0	70.0	30	10.0	119	15.0	PT	53	06	16	1136	127	543	2.33	50.0	19	242
100.0	80.0	29	58.5	120	05.5	PT	53	06	16	1836	149	477	3.13	100.0	25	162
100.0	90.0	29	39.0	120	46.5	PT	53	06	17	0056	146	411	3.55	100.0	62	134
100.0	100.0	29	20.0	121	24.5	PT	53	06	17	0716	133	496	2.69	100.0	38	229
103.0	30.0	31	04.5	116	25.0	PT	53	06	19	0633	54	162	3.34	100.0	3	405
103.0	35.0	30	52.8	116	39.5	PT	53	06	19	0346	135	450	2.99	50.0	9	5
103.0	40.0	30	44.2	117	02.5	PT	53	06	19	0026	145	477	3.04	50.0	14	220
103.0	45.0	30	38.0	117	22.0	PT	53	06	18	2026	141	447	3.14	50.0	8	32
103.0	50.0	30	30.1	117	41.5	PT	53	06	18	1806	135	442	3.06	100.0	13	241
103.0	55.0	30	24.0	117	56.0	PT	53	06	18	1536	115	549	2.10	50.0	33	476
103.0	60.0	30	19.5	118	12.0	PT	53	06	18	1216	131	508	2.58	50.0	18	239
103.0	65.0	30	07.0	118	34.0	PT	53	06	18	0826	139	449	3.10	50.0	7	152
103.0	70.0	29	54.2	118	55.5	PT	53	06	18	0526	144	473	3.04	50.0	24	56
103.0	80.0	29	30.0	119	38.8	PT	53	06	17	2223	136	486	2.80	100.0	50	207
103.0	90.0	29	05.0	120	21.0	PT	53	06	17	1446	125	514	2.43	100.0	48	174
107.0	32.0	30	25.8	116	10.5	HO	53	06	16	1236	122	494	2.47	25.0	3	2
107.0	35.0	30	19.8	116	22.2	HO	53	06	16	1056	134	471	2.85	100.0	30	74
107.0	40.0	30	09.8	116	42.2	HO	53	06	16	0806	114	486	2.34	25.0	17	115
107.0	45.0	30	00.0	117	02.0	HO	53	06	16	0501	119	501	2.37	50.0	9	350
107.0	50.0	29	50.0	117	22.0	HO	53	06	16	0251	133	524	2.53	50.0	15	56
107.0	55.0	29	40.0	117	43.0	HO	53	06	15	2241	137	494	2.78	100.0	45	95
107.0	60.0	29	31.0	118	02.0	HO	53	06	15	2031	123	553	2.23	100.0	44	529
107.0	65.0	29	21.0	118	24.0	HO	53	06	15	1726	123	522	2.35	100.0	56	153
107.0	70.0	29	09.0	118	45.0	HO	53	06	15	1326	140	471	2.96	100.0	35	423
110.0	33.0	29	50.0	115	52.5	HO	53	06	14	0528	69	284	2.43	13.0	1	13
110.0	35.0	29	47.8	116	00.0	HO	53	06	14	0706	133	479	2.77	50.0	13	108
110.0	40.0	29	37.5	116	15.0	HO	53	06	14	1106	144	466	3.09	100.0	14	84
110.0	45.0	29	28.0	116	40.0	HO	53	06	14	1541	141	486	2.90	100.0	10	33

TABLE 1. (cont.)

CalCOFI Cruise 5306

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
110.0	50.0	29	19.0	117	10.0	HO	53	06	14	1946	140	498	2.81	100.0	10	24
110.0	55.0	29	12.0	117	25.0	HO	53	06	14	2116	143	497	2.87	100.0	18	19
110.0	60.0	29	01.0	117	46.0	HO	53	06	15	0031	134	536	2.50	100.0	14	43
110.0	65.0	28	47.0	118	03.0	HO	53	06	15	0246	140	492	2.84	100.0	26	49
110.0	70.0	28	38.0	118	20.0	HO	53	06	15	0601	136	513	2.65	100.0	11	25
113.0	30.0	29	20.5	115	14.5	HO	53	06	13	2213	79	226	3.51	100.0	34	16
113.0	35.0	29	11.0	115	34.5	HO	53	06	13	1926	126	489	2.57	50.0	5	26
113.0	40.0	28	57.0	116	03.0	HO	53	06	13	1611	130	494	2.64	100.0	14	30
113.0	45.0	28	49.0	116	20.0	HO	53	06	13	1306	130	497	2.62	100.0	11	231
113.0	50.0	28	39.0	116	40.0	HO	53	06	13	1001	141	477	2.95	100.0	8	6
113.0	55.0	28	31.0	116	57.0	HO	53	06	13	0816	132	472	2.80	100.0	30	48
113.0	60.0	28	10.5	117	15.0	HO	53	06	13	0526	116	489	2.37	50.0	200	383
113.0	65.0	28	04.0	117	35.0	HO	53	06	13	0216	133	468	2.85	100.0	21	16
113.0	70.0	27	58.0	117	55.0	HO	53	06	13	0006	130	483	2.69	100.0	180	125
117.0	26.0	28	54.5	114	38.5	HO	53	06	11	2043	66	252	2.62	100.0	250	133
117.0	30.0	28	48.0	114	56.5	HO	53	06	11	2243	59	242	2.44	100.0	73	266
117.0	35.0	28	39.0	115	17.0	HO	53	06	12	0111	127	468	2.70	100.0	9	13
117.0	40.0	28	31.5	115	37.0	HO	53	06	12	0416	126	478	2.63	100.0	22	155
117.0	45.0	28	18.0	115	55.0	HO	53	06	12	0621	116	549	2.11	100.0	22	228
117.0	50.0	28	07.0	116	17.5	HO	53	06	12	0941	131	470	2.78	100.0	99	148
117.0	55.0	27	57.0	116	38.0	HO	53	06	12	1136	142	440	3.22	100.0	684	272
117.0	60.0	27	48.0	116	56.5	HO	53	06	12	1421	135	468	2.89	100.0	58	241
117.0	65.0	27	40.0	117	15.0	HO	53	06	12	1621	107	537	2.00	100.0	22	219
117.0	70.0	27	30.0	117	33.0	HO	53	06	12	1926	132	467	2.82	100.0	72	78
120.0	25.0	28	25.0	114	16.2	HO	53	06	11	1624	43	187	2.32	50.0	274	189
120.0	30.0	28	13.0	114	34.5	HO	53	06	11	1342	85	312	2.72	50.0	129	2135
120.0	35.0	28	03.0	114	54.0	HO	53	06	11	1108	58	235	2.47	100.0	110	2212
120.0	40.0	27	55.0	115	14.5	HO	53	06	10	1354	29	164	1.75	100.0	30	373
120.0	45.0	27	41.5	115	33.5	HO	53	06	10	1126	142	449	3.16	100.0	82	99
120.0	50.0	27	35.0	115	51.0	HO	53	06	10	0721	128	526	2.43	100.0	472	56
120.0	55.0	27	24.0	116	12.0	HO	53	06	10	0401	124	522	2.38	100.0	27	45
120.0	60.0	27	14.5	116	31.0	HO	53	06	10	0116	128	509	2.51	100.0	45	11
120.0	65.0	27	03.0	116	52.0	HO	53	06	09	2216	129	507	2.55	100.0	54	60
120.0	70.0	26	51.0	117	17.0	HO	53	06	09	1916	101	637	1.59	100.0	119	239
120.0	80.0	26	33.5	117	49.2	HO	53	06	09	1311	135	521	2.60	100.0	13	7
120.0	90.0	26	13.5	118	33.0	HO	53	06	09	0646	110	598	1.84	100.0	27	80
123.0	37.0	27	24.5	114	40.0	HO	53	06	08	0523	49	206	2.35	100.0	4	37
123.0	40.0	27	18.0	114	52.2	HO	53	06	08	0736	130	493	2.63	100.0	62	35
123.0	45.0	27	07.5	115	11.8	HO	53	06	08	0946	129	432	2.98	100.0	12	83
123.0	50.0	26	59.5	115	33.2	HO	53	06	08	1306	144	482	2.98	100.0	13	23
123.0	55.0	26	49.0	115	49.0	HO	53	06	08	1501	140	486	2.89	100.0	91	34
123.0	60.0	26	36.0	116	08.8	HO	53	06	08	1801	122	544	2.24	100.0	65	180
127.0	34.0	26	58.8	114	07.8	HO	53	06	08	0108	66	220	3.02	100.0	13	281
127.0	40.0	26	41.8	114	27.5	HO	53	06	07	2151	108	457	2.36	100.0	46	184
127.0	45.0	26	28.8	114	52.0	HO	53	06	07	1826	110	429	2.55	100.0	18	68

TABLE 1. (cont.)

CalCOFI Cruise 5306

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
127.0	50.0	26 23.5	115 05.0	HO	53 06 07	1626	107	468	2.29	50.0	49	139
127.0	55.0	26 11.5	115 26.0	HO	53 06 07	1311	137	469	2.91	100.0	6	421
127.0	60.0	26 01.0	115 46.0	HO	53 06 07	1031	128	486	2.64	100.0	17	69
130.0	30.0	26 31.8	113 33.0	HO	53 06 06	1203	43	288	1.51	50.0	3	3
130.0	35.0	26 19.5	113 47.8	HO	53 06 06	1501	124	504	2.46	100.0	14	30
130.0	40.0	26 06.8	114 08.0	HO	53 06 06	1841	108	497	2.18	50.0	6	11
130.0	45.0	25 55.5	114 24.0	HO	53 06 06	2046	133	471	2.82	100.0	13	699
130.0	50.0	25 48.0	114 45.0	HO	53 06 07	0011	137	481	2.85	100.0	30	137
130.0	55.0	25 43.0	115 13.0	HO	53 06 07	0231	122	495	2.46	100.0	78	109
130.0	60.0	25 31.5	115 33.0	HO	53 06 07	0611	122	543	2.24	100.0	149	55
133.0	25.0	26 04.9	112 46.3	HO	53 06 06	0728	57	300	1.90	50.0	5	50
133.0	30.0	25 53.2	113 10.0	HO	53 06 06	0441	131	477	2.75	50.0	4	14
133.0	35.0	25 47.2	113 21.5	HO	53 06 06	0231	135	444	3.03	50.0	40	72
133.0	40.0	25 34.5	113 45.5	HO	53 06 05	2346	148	402	3.69	100.0	40	22
133.0	45.0	25 20.8	114 03.5	HO	53 06 05	1951	153	398	3.85	100.0	14	343
133.0	50.0	25 15.5	114 26.6	HO	53 06 05	1721	145	450	3.22	100.0	6	248
137.0	23.0	25 33.3	112 15.5	HO	53 06 04	1924	37	137	2.73	100.0	58	85
137.0	30.0	25 19.3	112 45.0	HO	53 06 04	2326	151	486	3.10	100.0	386	95
137.0	35.0	25 10.9	113 02.8	HO	53 06 05	0126	137	555	2.46	100.0	226	63
137.0	40.0	25 00.6	113 20.8	HO	53 06 05	0541	129	466	2.76	100.0	3	357
137.0	45.0	24 49.8	113 41.8	HO	53 06 05	0756	114	507	2.25	100.0	2	138
137.0	50.0	24 37.0	114 07.0	HO	53 06 05	1106	121	508	2.39	100.0	4	104

TABLE 1. (cont.)

CalCOFI Cruise 5307

Line	Station	Lat.(N) deg.	Lat.(N) min.	Long.(W) deg.	Long.(W) min.	Ship Code	Tow Date yr.	Tow Date mo.	Tow Date day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	55.0	37	49.0	123	16.5	CR	53	07	11	0827	80	272	2.92	100.0	11	163
60.0	60.0	37	37.0	123	37.0	CR	53	07	11	0541	155	351	4.42	100.0	3	81
60.0	70.0	37	15.0	124	21.0	CR	53	07	10	2316	126	463	2.73	50.0	10	7
60.0	80.0	36	57.0	125	01.0	CR	53	07	10	1826	136	438	3.11	50.0	4	4
60.0	90.0	36	32.0	125	51.0	CR	53	07	10	1301	136	458	2.96	100.0	4	44
60.0	100.0	36	14.0	126	30.5	CR	53	07	10	0846	135	578	2.34	100.0	12	6
63.0	52.0	37	19.0	122	36.0	CR	53	07	12	1818	75	213	3.52	100.0	5	14
63.0	55.0	37	14.0	122	49.0	CR	53	07	12	1541	135	431	3.12	50.0	26	3
67.0	53.0	36	45.0	122	14.0	CR	53	07	12	2305	148	428	3.45	50.0	30	45
67.0	55.0	36	39.0	122	26.0	CR	53	07	13	0151	151	371	4.08	100.0	17	27
67.0	60.0	36	30.0	122	46.5	CR	53	07	13	0415	147	458	3.21	100.0	5	4
67.0	65.0	36	19.0	123	09.0	CR	53	07	13	0726	135	457	2.97	50.0	4	12
70.0	51.0	36	10.0	121	46.0	CR	53	07	09	0136	148	465	3.18	100.0	16	1
70.0	55.0	36	03.0	122	02.0	CR	53	07	09	0521	137	532	2.58	100.0	5	28
70.0	60.0	35	55.5	122	17.5	CR	53	07	09	0806	131	472	2.79	50.0	9	12
70.0	70.0	35	34.5	123	07.0	CR	53	07	09	1336	138	465	2.96	50.0	18	7
70.0	80.0	35	13.0	123	48.0	CR	53	07	09	1856	143	408	3.51	25.0	8	10
73.0	50.0	35	37.0	121	17.5	CR	53	07	13	2030	73	320	2.29	100.0	11	1
73.0	55.0	35	29.0	121	40.5	CR	53	07	13	1726	125	469	2.66	100.0	6	5
73.0	60.0	35	21.0	121	54.5	CR	53	07	13	1546	138	425	3.24	100.0	7	9
77.0	50.0	35	05.0	120	54.0	CR	53	07	14	0036	137	398	3.45	25.0	1	21
77.0	55.0	34	56.0	121	14.0	CR	53	07	14	0346	136	414	3.29	25.0	1	1
77.0	60.0	34	46.0	121	35.0	CR	53	07	14	0606	170	348	4.90	50.0	7	18
77.0	65.0	34	33.0	121	55.0	CR	53	07	14	0907	129	410	3.14	100.0	25	171
80.0	51.0	34	26.5	120	32.5	CR	53	07	16	0853	66	238	2.77	50.0	6	8
80.0	55.0	34	19.0	120	48.0	CR	53	07	16	0634	121	477	2.53	50.0	0	2
80.0	60.0	34	07.5	121	11.0	CR	53	07	16	0306	142	242	5.85	25.0	7	5
80.0	70.0	33	47.0	121	50.0	CR	53	07	15	2011	126	452	2.79	50.0	16	85
80.0	80.0	33	29.0	122	32.0	CR	53	07	15	1445	133	451	2.94	100.0	3	7
80.0	90.0	33	09.0	123	15.5	CR	53	07	15	0856	129	488	2.65	100.0	15	49
80.0	100.0	32	49.0	123	54.0	CR	53	07	15	0321	148	399	3.71	100.0	26	25
83.0	40.0	34	14.0	119	22.0	CR	53	07	16	1510	14	78	1.78	100.0	7	8
83.0	43.0	34	08.0	119	34.0	CR	53	07	16	1646	143	422	3.39	12.5	8	121
83.0	48.0	33	58.5	119	55.0	CR	53	07	16	2012	81	394	2.05	100.0	2	408
83.0	51.0	33	52.0	120	08.0	CR	53	07	16	2209	83	390	2.14	25.0	1	24
83.0	55.0	33	43.0	120	25.0	CR	53	07	17	0056	134	448	2.99	50.0	4	8
83.0	60.0	33	34.0	120	45.0	CR	53	07	17	0401	139	409	3.39	50.0	13	350
85.0	39.0	34	00.0	119	04.0	CR	53	07	17	2116	136	437	3.12	25.0	50	21
85.0	40.0	33	57.0	119	10.5	CR	53	07	17	2001	123	465	2.64	100.0	348	29
85.0	45.0	33	47.0	119	32.0	CR	53	07	17	1857	133	437	3.04	25.0	17	3
85.0	50.0	33	37.0	119	52.0	CR	53	07	17	1351	140	427	3.28	25.0	2	1
85.0	55.0	33	27.0	120	12.5	CR	53	07	17	1036	128	406	3.15	25.0	0	0
85.0	60.0	33	14.5	120	34.0	CR	53	07	17	0716	139	321	4.33	25.0	10	86
87.0	40.0	33	40.0	118	58.5	CR	53	07	18	0416	139	404	3.44	50.0	60	47
87.0	45.0	33	30.0	119	19.0	CR	53	07	18	0719	115	458	2.51	12.5	2	6

TABLE 1. (cont.)

CalCOFI Cruise 5307

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
87.0	50.0	33	20.0	119	38.5	CR	53	07	18	0941	52	238	2.16	50.0	2	59
87.0	55.0	33	10.0	120	00.5	CR	53	07	18	1246	138	469	2.93	50.0	5	13
87.0	60.0	33	00.0	120	21.5	CR	53	07	18	1601	135	441	3.05	12.5	1	3
90.0	28.0	33	28.5	117	46.5	CR	53	07	20	0146	43	204	2.66	100.0	118	40
90.0	30.0	33	24.5	117	55.0	CR	53	07	19	2316	132	448	2.95	100.0	632	39
90.0	37.0	33	11.0	118	23.5	CR	53	07	19	1821	131	476	2.75	50.0	15	29
90.0	45.0	32	54.5	118	56.0	CR	53	07	19	1413	122	437	2.79	50.0	2	4
90.0	50.0	32	44.5	119	17.0	CR	53	07	19	1036	135	412	3.27	100.0	12	11
90.0	55.0	32	34.5	119	32.0	CR	53	07	19	0811	143	328	4.35	50.0	10	92
90.0	60.0	32	24.0	119	55.0	CR	53	07	19	0516	140	408	3.44	25.0	12	17
90.0	70.0	32	04.5	120	39.0	CR	53	07	18	2316	135	309	4.38	25.0	7	14
93.0	27.0	32	56.2	117	18.2	HO	53	07	26	0418	43	204	2.12	100.0	240	421
93.0	30.0	32	49.2	117	32.5	HO	53	07	26	0215	136	455	2.99	100.0	80	30
93.0	35.0	32	41.0	117	52.5	HO	53	07	25	2246	124	492	2.52	100.0	34	117
93.0	40.0	32	29.5	118	13.2	HO	53	07	25	2016	119	481	2.47	100.0	20	451
93.0	45.0	32	19.0	118	31.5	HO	53	07	25	1726	132	429	3.07	25.0	2	76
93.0	50.0	32	09.0	118	53.0	HO	53	07	25	1451	155	421	3.69	50.0	3	40
97.0	30.0	32	15.0	117	09.0	HO	53	07	24	2239	27	184	1.48	100.0	115	3001
97.0	35.0	32	07.0	117	26.5	HO	53	07	25	0121	135	447	3.01	50.0	21	187
97.0	40.0	31	57.5	117	48.0	HO	53	07	25	0421	127	451	2.83	100.0	30	86
97.0	45.0	31	49.6	118	06.2	HO	53	07	25	0650	146	437	3.33	100.0	10	38
97.0	50.0	31	44.0	118	32.2	HO	53	07	25	1031	142	454	3.12	50.0	6	66
100.0	29.0	31	42.0	116	43.8	HO	53	07	24	1727	101	388	2.60	100.0	14	269
100.0	30.0	31	40.0	116	47.8	HO	53	07	24	1606	140	480	2.91	100.0	28	52
100.0	35.0	31	33.2	117	14.0	HO	53	07	24	1320	133	487	2.73	13.0	0	2
100.0	40.0	31	24.5	117	28.5	HO	53	07	24	1036	138	458	3.02	25.0	2	5
100.0	45.0	31	13.9	117	49.5	HO	53	07	24	0641	127	384	3.31	100.0	28	43
100.0	50.0	31	03.8	118	09.5	HO	53	07	24	0416	149	419	3.55	50.0	15	194
100.0	60.0	30	41.2	118	48.0	HO	53	07	23	2226	147	476	3.08	100.0	44	20
100.0	70.0	30	18.0	119	26.8	HO	53	07	23	1626	142	440	3.23	25.0	3	5
100.0	80.0	30	10.0	120	14.0	HO	53	07	23	1051	122	503	2.43	100.0	10	140
103.0	30.0	31	05.2	116	25.2	HO	53	07	22	0902	50	234	2.13	100.0	23	161
103.0	35.0	30	53.2	116	45.5	HO	53	07	22	1201	136	440	3.08	6.0	1	0
103.0	40.0	30	44.0	117	04.0	HO	53	07	22	1506	136	462	2.94	100.0	13	276
107.0	32.0	30	26.8	116	12.8	HO	53	07	22	0426	107	475	2.26	50.0	20	23
107.0	35.0	30	21.2	116	27.0	HO	53	07	22	0106	138	482	2.85	100.0	44	85
107.0	40.0	30	08.8	116	40.0	HO	53	07	21	2151	130	501	2.59	100.0	73	676
110.0	33.0	29	48.8	115	53.8	HO	53	07	19	0346	125	538	2.32	100.0	50	298
110.0	35.0	29	45.8	116	00.0	HO	53	07	19	0606	140	394	3.56	50.0	19	57
110.0	40.0	29	35.2	116	22.0	HO	53	07	19	0931	122	464	2.62	100.0	16	205
110.0	50.0	29	18.0	116	59.0	HO	53	07	19	1421	135	459	2.94	100.0	56	2
110.0	60.0	28	48.5	117	40.5	HO	53	07	21	0946	137	515	2.65	100.0	40	56
113.0	30.0	29	24.0	115	21.5	HO	53	07	18	2234	64	155	4.12	50.0	4	121
113.0	35.0	29	10.0	115	37.5	HO	53	07	18	1946	144	647	2.22	50.0	5	29
113.0	40.0	29	04.0	115	59.5	HO	53	07	18	1606	114	565	2.01	100.0	52	46

TABLE 1. (cont.)

CalCOFI Cruise 5307

Line	Station	Lat.(N) deg.	Lat.(N) min.	Long.(W) deg.	Long.(W) min.	Ship Code	Tow Date yr.	Tow Date mo.	Tow Date day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
117.0	26.0	28	53.8	114	36.5	HO	53	07	17	2330	54	344	1.55	100.0	47	372
117.0	30.0	28	45.8	114	51.5	HO	53	07	18	0406	85	458	1.85	100.0	44	107
117.0	35.0	28	36.2	115	10.8	HO	53	07	18	0641	146	424	3.44	100.0	71	433
117.0	40.0	28	27.8	115	36.2	HO	53	07	18	1031	129	529	2.45	100.0	11	19
120.0	30.0	28	14.8	114	34.5	HO	53	07	17	1527	104	323	3.23	100.0	139	1082
120.0	35.0	28	05.5	114	53.2	HO	53	07	17	0412	68	358	1.90	25.0	85	2417
120.0	45.0	27	43.5	115	31.5	HO	53	07	16	2106	126	495	2.54	100.0	6	681
120.0	50.0	27	35.5	115	52.2	HO	53	07	16	1636	127	523	2.43	100.0	14	121
120.0	60.0	27	14.0	116	30.0	HO	53	07	16	1051	127	503	2.53	100.0	26	83
120.0	70.0	26	50.0	117	06.8	HO	53	07	16	0525	141	481	2.94	100.0	27	204
120.0	80.0	26	33.0	117	47.2	HO	53	07	16	0011	132	509	2.58	100.0	62	216
120.0	90.0	26	17.2	118	27.0	HO	53	07	15	1846	142	508	2.80	100.0	119	122
123.0	40.0	27	18.2	114	51.5	HO	53	07	14	1746	105	524	2.00	100.0	39	1297
123.0	45.0	27	09.5	115	11.5	HO	53	07	14	2031	150	414	3.61	100.0	27	100
123.0	50.0	26	59.0	115	31.2	HO	53	07	15	0011	138	461	2.98	100.0	13	55
127.0	34.0	26	55.2	114	06.8	HO	53	07	14	0923	74	224	3.31	12.0	6	1314
127.0	40.0	26	44.5	114	26.0	HO	53	07	14	0606	125	513	2.44	100.0	20	412
127.0	45.0	26	32.5	114	51.0	HO	53	07	14	0226	126	492	2.56	100.0	66	267
127.0	50.0	26	21.2	115	10.5	HO	53	07	14	0006	112	586	1.90	100.0	51	172
130.0	35.0	26	14.8	113	48.2	HO	53	07	12	2341	141	496	2.84	100.0	64	43
130.0	40.0	26	09.8	114	08.2	HO	53	07	13	0306	121	524	2.31	100.0	34	697
130.0	45.0	26	00.0	114	24.0	HO	53	07	13	0621	118	559	2.12	100.0	11	93
130.0	50.0	25	46.0	114	47.0	HO	53	07	13	1056	113	551	2.04	100.0	168	84
130.0	60.0	25	28.2	115	26.0	HO	53	07	13	1646	138	468	2.95	100.0	1	2039
133.0	25.0	26	05.2	112	50.0	HO	53	07	12	1543	68	352	1.92	25.0	2	11
133.0	30.0	25	56.8	113	07.5	HO	53	07	12	1331	104	553	1.89	100.0	9	65
133.0	35.0	25	45.8	113	26.5	HO	53	07	12	1016	137	494	2.78	100.0	4	86
133.0	40.0	25	31.2	113	47.0	HO	53	07	12	0716	123	536	2.30	100.0	17	42
137.0	23.0	25	36.0	112	17.8	HO	53	07	11	1914	49	211	2.34	50.0	65	753
137.0	30.0	25	20.2	112	45.0	HO	53	07	11	2336	118	445	2.65	100.0	95	132

TABLE 1. (cont.)

CalCOFI Cruise 5308

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	55.0	37 47.2	123 14.2	HO	53 08 22	1453	81	199	4.05	100.0	15	77
60.0	60.0	37 34.0	123 41.5	HO	53 08 22	1150	130	400	3.26	100.0	13	9
60.0	70.0	37 20.0	124 23.5	HO	53 08 22	0700	134	458	2.94	50.0	2	19
60.0	80.0	36 57.0	125 05.5	HO	53 08 22	0136	125	453	2.75	50.0	3	27
60.0	90.0	36 36.5	125 46.0	HO	53 08 21	1951	142	383	3.71	50.0	2	9
60.0	100.0	36 17.5	126 24.5	HO	53 08 21	1456	137	377	3.64	100.0	6	13
63.0	52.0	37 19.1	122 36.2	HO	53 08 23	1748	90	213	4.25	100.0	3	149
67.0	50.0	36 50.8	122 03.0	HO	53 08 24	1032	75	454	2.20	100.0	7	1445
67.0	55.0	36 36.6	122 24.5	HO	53 08 24	0746	131	482	2.89	25.0	3	12
67.0	65.0	36 18.7	123 06.7	HO	53 08 24	0226	136	341	2.83	50.0	10	33
70.0	55.0	36 03.0	122 03.5	HO	53 08 20	0836	121	530	2.28	25.0	24	9
70.0	60.0	35 51.9	122 24.0	HO	53 08 20	1236	125	446	2.80	50.0	7	11
70.0	70.0	35 32.0	123 04.5	HO	53 08 20	1726	121	441	2.74	50.0	6	7
70.0	80.0	35 12.0	123 47.8	HO	53 08 20	2336	123	446	2.75	50.0	6	6
73.0	50.0	35 36.8	121 15.5	HO	53 08 24	1907	76	356	2.12	100.0	4	350
73.0	60.0	35 15.0	121 59.0	HO	53 08 25	0016	114	557	2.05	25.0	41	34
77.0	50.0	35 05.0	120 54.5	HO	53 08 25	1436	155	409	3.78	50.0	2	2
77.0	55.0	34 54.5	121 11.0	HO	53 08 25	1126	138	434	3.17	25.0	4	13
77.0	65.0	34 29.8	121 55.5	HO	53 08 25	0556	132	430	3.07	50.0	7	5
80.0	51.0	34 26.0	120 31.6	HO	53 08 25	2002	67	393	1.70	50.0	17	309
80.0	55.0	34 20.0	120 49.5	HO	53 08 25	2311	136	430	3.15	50.0	7	3
80.0	60.0	34 10.8	121 08.0	HO	53 08 26	0301	150	404	3.71	50.0	7	3
80.0	70.0	33 58.5	121 48.5	HO	53 08 26	0811	137	469	2.92	100.0	10	3
80.0	80.0	33 36.0	122 30.0	HO	53 08 26	1321	144	450	3.20	50.0	1	3
80.0	90.0	33 10.0	123 16.5	HO	53 08 26	1906	128	543	2.35	100.0	12	5
80.0	100.0	32 45.0	124 00.0	HO	53 08 27	0041	124	528	2.34	100.0	75	12
83.0	40.0	34 14.2	119 21.2	HO	53 08 28	0730	6	127	0.49	100.0	4	258
83.0	43.0	34 08.8	119 34.0	HO	53 08 28	0556	122	548	2.22	50.0	27	377
83.0	48.0	33 58.5	119 55.5	HO	53 08 28	0008	64	268	2.38	100.0	11	263
83.0	51.0	33 51.6	120 08.5	HO	53 08 27	2133	72	262	2.75	100.0	41	309
83.0	55.0	33 46.0	120 25.1	HO	53 08 27	1936	148	465	3.18	100.0	39	271
83.0	60.0	33 35.0	120 48.0	HO	53 08 27	1621	163	444	3.66	50.0	8	7
85.0	39.0	34 00.8	119 05.0	HO	53 08 28	1106	125	529	2.37	100.0	43	54
85.0	40.0	33 57.2	119 09.8	HO	53 08 29	2056	125	491	2.55	50.0	20	2
85.0	45.0	33 47.8	119 30.3	HO	53 08 29	1801	132	512	2.59	100.0	19	3
85.0	50.0	33 36.5	119 51.8	HO	53 08 29	1436	122	551	2.22	100.0	13	2
85.0	55.0	33 31.0	120 14.5	HO	53 08 29	1146	107	580	1.84	50.0	2	5
85.0	60.0	33 19.0	120 35.0	HO	53 08 29	0831	126	489	2.57	100.0	10	8
87.0	35.0	33 50.8	118 37.2	HO	53 08 28	1341	121	555	2.18	100.0	36	41
87.0	40.0	33 40.0	118 56.5	HO	53 08 28	1656	164	440	3.73	100.0	44	3
87.0	45.0	33 30.0	119 19.0	HO	53 08 28	2036	147	531	2.76	100.0	29	11
87.0	50.0	33 18.5	119 38.2	HO	53 08 28	2324	24	121	2.00	100.0	31	764
87.0	55.0	33 09.6	120 01.2	HO	53 08 29	0211	97	645	1.51	50.0	20	14
87.0	60.0	32 58.5	120 24.0	HO	53 08 29	0526	105	576	1.82	50.0	10	16
90.0	30.0	33 24.5	117 55.0	CR	53 08 19	1806	126	495	2.56	50.0	12	44

TABLE 1. (cont.)

CalCOFI Cruise 5308

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
90.0	37.0	33	10.5	118	23.5	CR	53	08	19	1356	135	477	2.84	100.0	3	14
90.0	45.0	32	56.0	118	57.5	CR	53	08	19	0951	133	438	3.03	100.0	6	11
90.0	50.0	32	45.0	119	15.5	CR	53	08	19	0637	87	352	2.48	100.0	4	14
90.0	55.0	32	35.0	119	37.0	CR	53	08	19	0346	143	449	3.18	50.0	6	12
90.0	58.0	32	30.0	119	47.0	CR	53	08	19	0116	155	349	4.45	25.0	1	14
90.0	60.0	32	25.0	119	57.5	CR	53	08	18	2348	132	458	2.88	50.0	4	6
90.0	70.0	32	04.0	120	36.0	CR	53	08	18	1811	131	454	2.88	13.0	1	3
93.0	27.0	32	56.0	117	19.5	CR	53	08	19	2346	131	507	2.59	50.0	29	16
93.0	30.0	32	50.0	117	31.5	CR	53	08	20	0215	147	442	3.33	50.0	29	8
93.0	35.0	32	40.0	117	52.0	CR	53	08	20	0419	135	492	2.73	25.0	4	1
93.0	40.0	32	29.5	118	12.5	CR	53	08	20	0711	136	497	2.74	100.0	2	13
93.0	50.0	32	11.0	118	53.0	CR	53	08	20	1211	135	470	2.88	50.0	3	2
97.0	30.0	32	16.0	117	10.5	CR	53	08	21	0437	47	192	2.45	100.0	86	279
97.0	35.0	32	08.0	117	26.0	CR	53	08	21	0231	120	509	2.36	50.0	50	13
97.0	37.5	32	00.5	117	39.0	CR	53	08	21	0023	125	491	2.54	25.0	2	2
97.0	40.0	31	56.0	117	50.0	CR	53	08	20	2300	120	527	2.28	50.0	3	19
97.0	50.0	31	35.5	118	30.5	CR	53	08	20	1636	142	436	3.26	50.0	0	29
100.0	29.0	31	42.0	116	44.0	CR	53	08	16	1816	126	457	2.77	100.0	0	14
100.0	30.0	31	40.0	116	48.0	CR	53	08	16	1916	143	426	3.36	100.0	13	96
100.0	35.0	31	31.0	117	06.5	CR	53	08	16	2136	126	469	2.68	25.0	8	4
100.0	40.0	31	20.0	117	26.5	CR	53	08	17	0100	139	386	3.61	50.0	16	38
100.0	50.0	31	00.0	118	06.0	CR	53	08	17	0540	136	435	3.12	100.0	7	39
100.0	55.0	30	50.5	118	27.0	CR	53	08	17	0814	140	422	3.31	100.0	10	21
100.0	60.0	30	38.0	118	50.0	CR	53	08	17	1205	139	390	3.56	100.0	8	1
100.0	70.0	30	21.0	119	27.5	CR	53	08	17	1646	139	423	3.28	100.0	9	10
100.0	80.0	30	01.0	120	07.0	CR	53	08	17	2226	145	389	3.72	100.0	1	500
103.0	30.0	31	06.0	116	26.5	CR	53	08	16	0418	53	247	2.16	100.0	32	438
103.0	35.0	30	56.0	116	45.5	CR	53	08	16	0106	138	413	3.33	25.0	4	1
103.0	40.0	30	45.5	117	05.5	CR	53	08	15	2138	131	463	2.82	100.0	14	45
107.0	32.0	30	26.0	116	11.0	CR	53	08	15	0946	111	499	2.23	50.0	1	424
107.0	35.0	30	19.5	116	23.0	CR	53	08	15	1150	138	406	3.40	25.0	6	32
107.0	40.0	30	11.5	116	41.5	CR	53	08	15	1530	123	436	2.82	25.0	2	29
110.0	33.0	29	51.5	115	56.0	CR	53	08	15	0423	92	356	2.57	50.0	11	120
110.0	35.0	29	46.0	116	04.5	CR	53	08	15	0231	124	490	2.54	50.0	46	17
110.0	40.0	29	36.5	116	20.0	CR	53	08	14	2310	141	416	3.39	100.0	32	10
110.0	50.0	29	16.0	116	59.0	CR	53	08	14	1741	138	444	3.10	25.0	3	3
110.0	60.0	28	51.5	117	39.5	CR	53	08	14	1206	141	403	3.51	100.0	80	48
113.0	30.0	29	22.5	115	17.5	CR	53	08	05	1638	60	183	3.28	100.0	11	514
113.0	35.0	29	10.5	115	38.0	CR	53	08	05	2046	135	478	2.83	100.0	16	123
113.0	40.0	29	01.0	115	57.0	CR	53	08	06	0106	141	380	3.71	50.0	7	0
117.0	26.0	28	56.0	114	41.0	CR	53	08	06	1408	70	244	2.89	100.0	77	227
117.0	30.0	28	48.0	114	56.5	CR	53	08	06	1207	94	292	3.21	100.0	61	275
117.0	35.0	28	39.0	115	17.0	CR	53	08	06	0926	124	578	2.39	100.0	22	423
117.0	40.0	28	25.5	115	34.0	CR	53	08	06	0616	125	506	2.48	100.0	88	74
120.0	25.0	28	23.0	114	14.5	CR	53	08	06	1824	46	178	2.58	100.0	58	1283

TABLE 1. (cont.)

CalCOFI Cruise 5308

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
120.0	30.0	28 12.5	114 33.5	CR	53 08 06	2057	86	289	2.97	100.0	173	545
120.0	35.0	28 03.0	114 54.0	CR	53 08 06	2323	79	253	3.13	100.0	368	11280
120.0	45.0	27 43.0	115 33.0	CR	53 08 12	1715	147	388	3.79	100.0	88	70
120.0	50.0	27 32.5	115 52.5	CR	53 08 12	2028	143	406	3.54	100.0	32	726
120.0	60.0	27 11.5	116 31.0	CR	53 08 13	0146	138	421	3.27	100.0	153	163
120.0	70.0	26 47.0	117 16.5	CR	53 08 13	0745	127	474	2.69	100.0	79	256
120.0	80.0	26 31.0	117 45.0	CR	53 08 13	1238	121	445	2.72	100.0	76	91
120.0	90.0	26 14.5	118 25.0	CR	53 08 13	1738	131	474	2.77	100.0	56	49
123.0	37.0	27 24.0	114 40.0	CR	53 08 12	0057	54	245	2.19	100.0	13	31
123.0	40.0	27 15.5	114 50.5	CR	53 08 11	2315	119	450	2.64	100.0	44	106
123.0	45.0	27 08.0	115 11.0	CR	53 08 11	1920	147	386	3.82	100.0	55	156
123.0	50.0	26 58.0	115 30.5	CR	53 08 11	1706	139	446	3.11	100.0	93	425
127.0	34.0	26 54.0	114 08.0	CR	53 08 11	0145	78	275	2.82	50.0	21	133
127.0	40.0	26 42.0	114 28.5	CR	53 08 11	0456	137	475	2.89	100.0	31	82
127.0	45.0	26 29.5	114 49.0	CR	53 08 11	0708	140	381	3.68	100.0	17	49
127.0	50.0	26 18.5	115 07.0	CR	53 08 11	1014	137	438	3.13	100.0	44	481
130.0	30.0	26 29.0	113 29.0	CR	53 08 10	1928	72	204	3.54	100.0	34	85
130.0	35.0	26 20.5	113 49.0	CR	53 08 10	1643	144	404	3.56	100.0	36	221
130.0	40.0	26 09.0	114 08.0	CR	53 08 10	1356	142	396	3.60	100.0	48	88
130.0	45.0	25 59.0	114 27.0	CR	53 08 10	0931	132	447	2.95	100.0	57	23
130.0	50.0	25 49.0	114 44.5	CR	53 08 10	0721	142	357	3.97	100.0	55	375
130.0	60.0	25 29.5	115 21.0	CR	53 08 10	0256	144	375	3.85	100.0	102	872
133.0	25.0	26 05.0	112 48.0	CR	53 08 09	0808	55	273	2.02	100.0	18	1
133.0	30.0	25 55.0	113 07.5	CR	53 08 09	1033	111	508	2.18	100.0	138	75
133.0	35.0	25 44.5	113 26.0	CR	53 08 09	1256	132	419	3.15	100.0	38	305
133.0	40.0	25 34.0	113 47.0	CR	53 08 09	1635	138	435	3.18	100.0	11	352
137.0	23.0	25 34.0	112 18.5	CR	53 08 08	2323	61	244	2.48	100.0	288	2140
137.0	30.0	25 18.0	112 49.0	CR	53 08 09	0254	133	492	2.70	100.0	140	119

TABLE 1. (cont.)

CalCOFI Cruise 5309

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
81.8	46.0	34	22.0	119	58.0	CR	53	09	15	0926	92	635	1.45	100.0	5	84
82.3	47.0	34	08.5	119	59.5	CR	53	09	15	1126	138	354	3.90	50.0	18	144
83.0	40.0	34	14.0	119	22.0	CR	53	09	15	0315	11	141	0.76	100.0	94	196
83.0	43.0	34	08.0	119	37.5	CR	53	09	15	0556	131	384	3.42	50.0	30	115
83.0	48.0	33	58.5	119	54.5	CR	53	09	15	1509	63	258	2.46	100.0	49	94
83.0	51.0	33	52.0	120	08.5	CR	53	09	15	1716	143	488	2.92	100.0	15	15
83.0	55.0	33	44.0	120	24.5	CR	53	09	15	1851	139	472	2.95	50.0	7	10
85.0	39.0	34	00.0	119	04.0	CR	53	09	16	0926	141	473	2.98	100.0	43	17
85.0	40.0	33	57.0	119	10.5	CR	53	09	16	0816	140	480	2.91	100.0	16	28
85.0	45.0	33	47.0	119	31.0	CR	53	09	16	0506	142	490	2.90	50.0	9	3
85.0	50.0	33	37.0	119	52.0	CR	53	09	16	0156	132	510	2.58	100.0	45	1
85.0	55.0	33	27.0	120	12.5	CR	53	09	15	2256	139	477	2.91	100.0	50	9
87.0	35.0	33	50.0	118	37.5	CR	53	09	16	1236	121	553	2.19	100.0	41	18
87.0	40.0	33	40.0	118	58.5	CR	53	09	17	0316	118	554	2.13	100.0	159	98
87.0	45.0	33	30.5	119	19.0	CR	53	09	17	0611	128	505	2.54	50.0	10	1
87.0	50.0	33	20.0	119	40.0	CR	53	09	17	0838	64	254	2.54	100.0	8	10
87.0	55.0	33	10.0	120	00.5	CR	53	09	17	1106	127	588	2.16	100.0	8	10
87.0	60.0	33	00.0	120	21.5	CR	53	09	17	1356	116	556	2.08	100.0	2	8
113.0	30.0	29	22.0	115	16.2	HO	53	09	09	1629	33	149	2.22	100.0	75	195
113.0	35.0	29	10.6	115	38.5	HO	53	09	09	1206	139	497	2.79	100.0	43	6
115.0	26.0	29	13.0	114	52.0	HO	53	09	09	2135	34	159	2.16	100.0	50	143
115.0	30.0	29	05.2	115	07.8	HO	53	09	10	0044	62	311	1.98	100.0	114	113
115.0	35.0	28	53.8	115	29.0	HO	53	09	10	0436	75	675	1.12	100.0	467	17
117.0	26.0	28	56.4	114	40.8	HO	53	09	11	0308	32	281	1.15	100.0	74	116
117.0	30.0	28	48.1	114	56.3	HO	53	09	11	0008	56	310	1.81	100.0	367	342
117.0	35.0	28	38.0	115	16.0	HO	53	09	10	2016	134	488	2.76	100.0	62	11
117.0	40.0	28	28.0	115	35.6	HO	53	09	10	1316	142	482	2.94	100.0	72	398
118.5	25.0	28	41.2	114	26.7	HO	53	09	11	0616	42	314	1.33	100.0	94	113
118.5	30.0	28	31.6	114	45.7	HO	53	09	11	0933	70	322	2.17	100.0	60	208
118.5	35.0	28	21.2	115	06.0	HO	53	09	11	1248	62	373	1.65	100.0	62	68
119.0	42.0	28	00.5	115	30.0	HO	53	09	12	2232	86	427	2.02	100.0	85	169
120.0	25.0	28	22.3	114	16.7	HO	53	09	12	0348	34	282	1.22	100.0	247	464
120.0	30.0	28	13.1	114	33.9	HO	53	09	12	0027	62	210	2.96	100.0	307	893
120.0	30.0	28	13.1	114	33.9	HO	53	09	16	0903	50	249	2.03	100.0	122	730
120.0	31.0	28	04.3	114	41.8	HO	53	09	16	1009	55	235	2.34	100.0	158	714
120.0	35.0	28	05.3	114	52.0	HO	53	09	11	1633	57	295	1.94	100.0	75	541
120.0	43.0	27	46.8	115	25.2	HO	53	09	13	0118	123	515	2.39	100.0	66	542
121.0	30.0	28	02.6	114	27.2	HO	53	09	11	2204	26	178	1.44	100.0	148	670
121.0	34.0	27	54.8	114	42.8	HO	53	09	11	1909	24	170	1.44	100.0	124	267
121.0	41.0	27	40.0	115	10.3	HO	53	09	13	0426	132	482	2.73	100.0	56	51
121.1	26.0	28	10.0	114	10.9	HO	53	09	12	0624	16	136	1.20	100.0	34	641
121.5	28.0	28	01.5	114	16.3	HO	53	09	12	1555	9	84	1.07	100.0	63	1280

TABLE 1. (cont.)

CalCOFI Cruise 5310

Line	Station	Lat.(N) deg.	Lat.(N) min.	Long.(W) deg.	Long.(W) min.	Ship Code	Tow Date yr.	Tow Date mo.	Tow Date day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
82.3	47.0	34	10.5	119	59.5	PT	53	10	21	0126	137	468	2.93	100.0	34	313
83.0	40.0	34	14.0	119	22.0	PT	53	10	20	1310	10	134	0.73	100.0	40	281
83.0	43.0	34	07.8	119	31.6	PT	53	10	20	1735	120	558	2.15	100.0	59	60
83.0	48.0	33	58.5	119	55.0	PT	53	10	21	0353	63	331	1.90	100.0	44	244
83.0	51.0	33	52.0	120	08.5	PT	53	10	21	0617	84	582	1.44	100.0	83	235
83.0	55.0	33	44.0	120	24.5	PT	53	10	21	1041	139	552	2.52	100.0	43	111
90.0	28.0	33	28.5	117	47.0	CR	53	10	20	1756	143	462	3.09	100.0	138	137
90.0	30.0	33	24.5	117	54.5	CR	53	10	20	1936	139	478	2.91	100.0	77	136
90.0	37.0	33	11.0	118	24.0	CR	53	10	20	2340	136	463	2.94	100.0	23	99
90.0	45.0	32	55.0	118	56.0	CR	53	10	21	0435	138	476	2.89	100.0	11	59
90.0	50.0	32	45.5	119	20.0	CR	53	10	21	0741	136	418	3.26	100.0	12	12
90.0	55.0	32	36.5	119	37.5	CR	53	10	21	1106	144	447	3.23	100.0	9	7
90.0	60.0	32	27.0	119	54.0	CR	53	10	21	1446	136	472	2.88	100.0	2	3
90.0	70.0	32	02.5	120	37.5	CR	53	10	21	2125	138	426	3.25	100.0	1	2
93.0	27.0	32	56.0	117	19.0	CR	53	10	22	2005	84	250	3.37	100.0	151	150
93.0	30.0	32	50.0	117	31.5	CR	53	10	22	1825	135	493	2.73	100.0	46	38
93.0	40.0	32	30.0	118	12.5	CR	53	10	22	1316	119	551	2.16	100.0	8	13
93.0	50.0	32	15.0	118	56.5	CR	53	10	22	0656	147	478	3.07	100.0	3	18
97.0	30.0	32	15.5	117	09.5	CR	53	10	20	0911	44	193	2.26	100.0	87	86
97.0	35.0	32	05.5	117	29.0	CR	53	10	20	0631	137	485	2.82	100.0	10	33
97.0	40.0	32	01.5	117	44.0	CR	53	10	20	0406	138	467	2.95	100.0	54	64
97.0	50.0	31	37.5	118	27.5	CR	53	10	19	2246	143	510	2.80	100.0	37	57
100.0	29.0	31	42.5	116	43.5	CR	53	10	18	0807	101	372	2.71	100.0	13	231
100.0	30.0	31	40.5	116	46.5	CR	53	10	18	0925	137	457	2.99	100.0	9	79
100.0	40.0	31	20.5	117	25.0	CR	53	10	18	1535	135	502	2.69	100.0	12	19
100.0	50.0	31	00.0	118	06.0	CR	53	10	18	2116	139	481	2.89	100.0	165	44
100.0	60.0	30	38.0	118	45.0	CR	53	10	19	0336	134	506	2.65	100.0	80	64
100.0	70.0	30	21.0	119	27.0	CR	53	10	19	0937	138	474	2.92	100.0	25	14
103.0	30.0	31	03.5	116	26.0	CR	53	10	18	0318	68	203	3.37	100.0	73	16
103.0	35.0	30	52.0	116	43.0	CR	53	10	18	0036	145	380	3.81	100.0	29	39
103.0	40.0	30	44.5	117	06.0	CR	53	10	17	2100	138	408	3.39	100.0	34	6
107.0	32.0	30	26.0	116	11.0	CR	53	10	16	1936	150	372	4.04	100.0	38	49
107.0	35.0	30	20.0	116	23.0	CR	53	10	16	2150	139	399	3.48	100.0	482	47
107.0	40.0	30	10.5	116	43.0	CR	53	10	17	0110	139	394	3.52	100.0	181	8
110.0	33.0	29	54.5	115	54.0	CR	53	10	16	1517	106	288	3.68	100.0	47	23
110.0	35.0	29	50.0	116	03.0	CR	53	10	16	1336	143	390	3.66	100.0	127	28
110.0	40.0	29	37.5	116	25.5	CR	53	10	16	1016	147	379	3.88	100.0	22	12
110.0	50.0	29	13.5	117	01.5	CR	53	10	16	0503	143	365	3.93	100.0	67	10
110.0	60.0	28	56.0	117	40.0	CR	53	10	15	2330	137	430	3.19	100.0	43	5
113.0	30.0	29	23.0	115	17.0	CR	53	10	07	1530	46	168	2.72	100.0	12	62
113.0	35.0	29	12.0	115	38.5	CR	53	10	07	1850	137	399	3.42	100.0	131	18
113.0	40.0	29	02.0	115	58.5	CR	53	10	07	2210	136	418	3.26	100.0	388	35
117.0	26.0	28	56.0	114	41.0	CR	53	10	08	1600	64	219	2.91	100.0	13	47
117.0	30.0	28	48.0	114	56.5	CR	53	10	08	1333	87	321	2.72	100.0	12	108
117.0	35.0	28	38.0	115	16.0	CR	53	10	08	0616	130	402	3.23	100.0	41	51

TABLE 1. (cont.)

CalCOFI Cruise 5310

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
117.0	40.0	28	28.0	115	35.5	CR	53	10	08	0316	133	420	3.15	100.0	215	5
120.0	25.0	28	23.0	114	14.5	CR	53	10	08	2128	52	178	2.94	100.0	11	275
120.0	30.0	28	10.0	114	34.0	CR	53	10	09	0047	83	308	2.70	100.0	180	1060
120.0	35.0	28	03.0	114	54.0	CR	53	10	09	0338	78	229	3.41	100.0	56	443
120.0	45.0	27	42.0	115	34.0	CR	53	10	13	1231	142	394	3.59	100.0	22	36
120.0	50.0	27	33.5	115	52.0	CR	53	10	13	1540	143	400	3.57	100.0	68	10
120.0	60.0	27	13.0	116	31.5	CR	53	10	13	2036	146	368	3.97	100.0	56	4
120.0	70.0	26	53.0	117	10.0	CR	53	10	14	0136	144	399	3.61	100.0	90	5
120.0	80.0	26	35.5	117	49.0	CR	53	10	13	0646	132	424	3.12	100.0	25	35
120.0	90.0	26	13.5	118	27.0	CR	53	10	14	1131	139	411	3.38	100.0	20	8
123.0	37.0	27	24.0	114	39.5	CR	53	10	13	0608	58	232	2.48	100.0	83	316
123.0	40.0	27	20.0	114	55.0	CR	53	10	13	0356	138	428	3.24	100.0	120	51
123.0	50.0	26	58.0	115	30.5	CR	53	10	12	2240	140	385	3.64	100.0	74	2
127.0	34.0	26	55.5	114	06.0	CR	53	10	12	0738	56	247	2.27	100.0	24	125
127.0	40.0	26	46.0	114	28.0	CR	53	10	12	1056	114	515	2.22	100.0	123	32
127.0	50.0	26	22.5	115	09.0	CR	53	10	12	1636	144	359	4.00	100.0	17	2
130.0	30.0	26	29.0	113	29.0	CR	53	10	12	0303	69	212	3.27	100.0	53	63
130.0	35.0	26	19.0	113	48.5	CR	53	10	12	0020	140	397	3.54	100.0	21	128
130.0	40.0	26	09.0	114	07.0	CR	53	10	11	2112	142	347	4.09	100.0	146	77
130.0	50.0	25	49.0	114	46.0	CR	53	10	11	1516	140	384	3.66	100.0	12	287
133.0	25.0	26	05.0	112	50.0	CR	53	10	10	1618	75	233	3.20	100.0	80	275
133.0	30.0	25	56.0	113	09.0	CR	53	10	10	1906	133	429	3.10	100.0	117	20
133.0	40.0	25	34.0	113	47.0	CR	53	10	11	0015	140	393	3.55	100.0	166	34
137.0	23.0	25	34.0	112	18.5	CR	53	10	10	0644	64	193	3.34	100.0	128	989

TABLE 1. (cont.)

CalCOFI Cruise 5311

Line	Station	Lat.(N) deg.	Lat.(N) min.	Long.(W) deg.	Long.(W) min.	Ship Code	Tow Date yr.	Tow Date mo.	Tow Date day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
81.8	46.0	34	18.3	119	58.0	PT	53	11	10	1440	140	479	2.92	100.0	171	283
82.3	47.0	34	11.0	119	59.2	PT	53	11	10	1631	135	523	2.59	100.0	224	237
83.0	40.0	34	14.0	119	22.0	PT	53	11	10	0755	19	145	1.29	100.0	194	46
83.0	43.0	34	08.0	119	33.5	PT	53	11	10	1001	151	462	3.27	100.0	69	243
83.0	48.0	33	58.2	119	55.7	PT	53	11	10	1849	33	211	1.57	100.0	363	315
83.0	51.0	33	52.0	120	08.8	PT	53	11	10	2123	98	294	3.33	100.0	194	104
83.0	55.0	33	44.0	120	24.5	PT	53	11	11	0031	142	564	2.52	100.0	287	138
83.0	60.0	33	34.8	120	43.5	PT	53	11	11	0445	126	534	2.36	100.0	15	186
85.0	39.0	34	00.0	119	04.0	PT	53	11	12	0146	107	537	2.00	100.0	666	437
85.0	40.0	33	57.0	119	10.5	PT	53	11	12	0016	136	435	3.13	100.0	275	233
85.0	45.0	33	46.8	119	31.3	PT	53	11	11	1831	137	474	2.90	100.0	182	91
85.0	50.0	33	37.5	119	52.0	PT	53	11	11	1451	167	420	3.96	100.0	23	75
85.0	55.0	33	26.0	120	15.9	PT	53	11	11	1025	121	633	1.92	100.0	10	32
85.0	60.0	33	18.6	120	32.3	PT	53	11	11	0806	111	601	1.85	100.0	20	405
87.0	35.0	33	50.0	118	37.4	PT	53	11	12	0536	159	442	3.60	100.0	605	119
87.0	40.0	33	40.0	118	58.5	PT	53	11	12	0921	135	529	2.56	100.0	53	282
87.0	45.0	33	30.0	119	19.0	PT	53	11	12	1301	162	425	3.82	100.0	21	137
87.0	55.0	33	10.0	120	00.5	PT	53	11	12	1926	156	434	3.59	100.0	26	59
87.0	60.0	32	59.5	120	23.0	PT	53	11	12	2311	131	528	2.48	100.0	24	9

TABLE 1. (cont.)

CalCOFI Cruise 5312

Line	Station	Lat.(N) deg.	min.	Long.(W) deg.	min.	Ship Code	Tow Date yr.	mo.	day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand-ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
81.8	46.0	34	18.0	119	58.0	CR	53	12	03	1056	127	524	2.42	100.0	429	621
82.3	47.0	34	10.5	119	59.5	CR	53	12	03	0846	128	572	2.24	100.0	325	428
83.0	40.0	34	14.0	119	22.0	CR	53	12	03	1730	20	86	2.35	100.0	248	288
83.0	43.0	34	08.0	119	34.0	CR	53	12	03	1526	138	508	2.71	100.0	231	597
83.0	48.0	33	58.5	119	55.0	CR	53	12	03	0613	92	277	3.32	100.0	206	241
83.0	51.0	33	52.0	120	08.3	CR	53	12	03	0336	141	534	2.64	100.0	398	317
83.0	55.0	33	44.0	120	25.0	CR	53	12	03	0045	147	495	2.96	100.0	261	154
83.0	60.0	33	33.5	120	45.5	CR	53	12	02	2034	137	598	2.29	100.0	22	15
85.0	39.0	34	00.0	119	04.0	CR	53	12	03	2006	93	390	2.38	100.0	102	699
85.0	40.0	33	56.5	119	11.0	CR	53	12	03	2221	140	524	2.67	100.0	412	1792
85.0	45.0	33	47.0	119	31.5	CR	53	12	04	0246	129	525	2.46	100.0	140	589
85.0	50.0	33	37.0	119	52.0	CR	53	12	04	0606	139	541	2.56	100.0	294	787
87.0	35.0	33	50.0	118	37.0	CR	53	12	06	0136	134	544	2.46	100.0	481	2256
87.0	40.0	33	40.0	118	58.5	CR	53	12	05	2121	137	543	2.52	50.0	135	907
87.0	45.0	33	29.5	119	18.0	CR	53	12	05	1736	139	548	2.53	100.0	322	749
87.0	50.0	33	19.5	119	39.5	CR	53	12	05	1418	62	259	2.38	100.0	156	10
87.0	55.0	33	10.0	120	30.0	CR	53	12	05	1126	133	529	2.52	100.0	24	74
90.0	28.0	33	28.5	117	46.5	CR	53	12	06	0746	129	584	2.21	100.0	647	1206
90.0	30.0	33	24.5	117	55.0	CR	53	12	06	0956	133	571	2.32	100.0	118	877
90.0	37.0	33	11.0	118	23.0	CR	53	12	06	1351	141	536	2.63	100.0	50	267
90.0	45.0	32	54.5	118	56.0	CR	53	12	07	0711	144	532	2.70	100.0	52	2451
90.0	50.0	32	44.5	119	16.5	CR	53	12	07	1016	134	552	2.43	100.0	106	269
90.0	55.0	32	34.0	119	35.5	CR	53	12	07	1426	143	534	2.67	100.0	28	78
90.0	60.0	32	25.0	119	57.5	CR	53	12	07	1819	161	547	2.94	100.0	11	8
93.0	27.0	32	56.0	117	18.5	CR	53	12	08	1348	82	350	2.35	100.0	116	133
93.0	30.0	32	51.5	117	31.5	CR	53	12	08	1206	138	546	2.53	50.0	176	637
93.0	40.0	32	31.0	118	10.0	CR	53	12	08	0646	147	500	2.94	100.0	18	138
93.0	50.0	32	10.0	118	53.5	CR	53	12	08	0056	154	500	3.07	100.0	16	111
97.0	30.0	32	15.0	117	09.0	CR	53	12	08	1919	51	179	2.85	100.0	421	329
97.0	35.0	32	05.5	117	29.0	CR	53	12	08	2226	141	549	2.57	100.0	30	92
97.0	40.0	31	55.0	117	50.0	CR	53	12	09	0136	142	547	2.59	100.0	22	93
97.0	50.0	31	39.0	118	32.5	CR	53	12	09	0656	137	564	2.42	50.0	62	741
100.0	29.0	31	42.0	116	43.5	CR	53	12	11	0428	79	354	2.23	100.0	56	34
100.0	30.0	31	40.5	116	47.0	CR	53	12	11	0316	138	515	2.69	100.0	109	245
100.0	40.0	31	21.0	117	27.0	CR	53	12	10	2146	131	562	2.32	100.0	123	403
100.0	50.0	31	00.0	118	00.0	CR	53	12	10	1626	155	515	3.01	100.0	2	244
100.0	60.0	30	39.5	118	47.0	CR	53	12	10	1101	151	504	2.99	100.0	2	4
100.0	70.0	30	21.5	119	26.5	CR	53	12	10	0436	146	525	2.79	100.0	8	3
100.0	80.0	30	01.0	120	07.0	CR	53	12	09	2306	135	556	2.43	100.0	21	7
103.0	30.0	31	05.0	116	25.0	CR	53	12	11	0928	68	283	2.39	100.0	13	22
103.0	35.0	30	55.5	116	45.0	CR	53	12	11	1221	138	501	2.75	100.0	30	76
103.0	40.0	30	46.5	117	08.0	CR	53	12	11	1536	131	535	2.45	100.0	5	81
107.0	32.0	30	26.5	116	11.0	CR	53	12	12	0206	129	599	2.15	100.0	16	32
107.0	35.0	30	20.0	116	23.0	CR	53	12	12	0006	135	549	2.46	100.0	16	19
107.0	40.0	30	10.5	116	43.5	CR	53	12	11	2031	136	567	2.39	100.0	78	62

TABLE 1. (cont.)

CalCOFI Cruise 5312

Line	Station	Lat.(N) deg.	Lat.(N) min.	Long.(W) deg.	Long.(W) min.	Ship Code	Tow Date yr.	Tow Date mo.	Tow Date day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Standard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
110.0	33.0	29	50.0	115	53.0	CR	53	12	12	0647	94	495	1.91	100.0	42	226
110.0	35.0	29	46.5	116	00.0	CR	53	12	12	0856	136	581	2.34	100.0	24	110
110.0	40.0	29	36.5	116	19.5	CR	53	12	12	1245	134	599	2.23	100.0	6	45
110.0	50.0	29	17.5	116	56.5	CR	53	12	12	1746	140	489	2.85	100.0	11	2
110.0	60.0	28	56.0	117	38.0	CR	53	12	12	2336	142	529	2.69	100.0	8	2
113.0	30.0	29	23.0	115	18.0	PT	53	12	12	1559	55	196	2.81	100.0	34	73
113.0	35.0	29	12.5	115	43.2	PT	53	12	12	1056	129	578	2.23	100.0	1	1
113.0	40.0	29	01.2	116	01.5	PT	53	12	12	0806	125	577	2.17	100.0	2	0
117.0	26.0	28	56.2	114	42.0	PT	53	12	11	1303	59	328	1.81	100.0	4	18
117.0	30.0	28	48.0	114	56.2	PT	53	12	11	1643	61	328	1.86	100.0	20	85
118.3	33.0	28	27.0	114	57.5	PT	53	12	11	2057	77	292	2.63	100.0	6	22
120.0	25.0	28	22.7	114	14.2	PT	53	12	11	0438	54	234	2.29	100.0	0	194
120.0	30.0	28	12.5	114	34.5	PT	53	12	10	0648	62	254	1.79	100.0	2	70
120.0	35.0	28	02.7	114	53.5	PT	53	12	10	0038	75	536	2.94	100.0	6	87
120.0	45.0	27	45.0	115	33.2	PT	53	12	09	1706	143	545	2.67	100.0	36	95
120.0	50.0	27	33.0	115	52.0	PT	53	12	09	1236	145	557	2.66	100.0	4	8
120.0	60.0	27	12.0	116	35.0	PT	53	12	09	0236	129	557	2.31	100.0	72	16
120.0	70.0	26	53.0	117	10.0	PT	53	12	08	1911	129	535	2.40	100.0	11	13
120.0	80.0	26	32.0	117	48.0	PT	53	12	08	1221	138	542	2.54	100.0	4	9
120.0	90.0	26	13.0	118	27.0	PT	53	12	08	0446	131	518	2.53	100.0	22	11
121.3	31.0	27	57.0	114	29.0	PT	53	12	10	1009	26	130	2.00	100.0	8	428
123.0	37.0	27	24.0	114	39.7	PT	53	12	06	1913	61	205	2.97	100.0	217	132
123.0	40.0	27	18.0	114	51.7	PT	53	12	06	2156	143	460	3.11	100.0	303	73
123.0	50.0	26	58.5	115	30.7	PT	53	12	07	0416	127	569	2.23	100.0	39	26
127.0	34.0	26	56.0	114	06.7	PT	53	12	06	1348	70	300	2.31	100.0	16	237
127.0	40.0	26	44.5	114	33.5	PT	53	12	06	0641	139	486	2.87	100.0	8	17
127.0	50.0	26	25.0	115	09.0	PT	53	12	05	2356	135	500	2.69	100.0	2	1
130.0	30.0	26	29.0	113	29.0	PT	53	12	04	1603	61	309	1.97	100.0	100	652
130.0	35.0	26	19.3	113	48.5	PT	53	12	04	2021	126	533	2.37	100.0	70	84
130.0	40.0	26	08.0	114	07.0	PT	53	12	05	0116	132	519	2.55	100.0	22	47
130.0	50.0	25	45.5	114	43.0	PT	53	12	05	0826	122	534	2.29	100.0	0	35
130.0	60.0	25	29.0	115	24.0	PT	53	12	05	1601	130	534	2.43	100.0	5	6
133.0	25.0	26	06.0	112	50.5	PT	53	12	04	1018	47	254	1.85	100.0	161	1404
133.0	30.0	25	57.5	113	05.5	PT	53	12	04	0738	61	330	1.84	100.0	19	170
133.0	40.0	25	34.5	113	45.5	PT	53	12	04	0116	134	501	2.67	100.0	43	117
137.0	23.0	25	34.5	112	18.7	PT	53	12	03	1238	62	327	1.91	100.0	138	2877
137.0	30.0	25	20.0	112	45.5	PT	53	12	03	1651	117	572	2.05	100.0	11	125

TABLE 2. Pooled occurrences of fish larvae taken during CalCOFI cruises in 1953.

Rank	Taxon	Occurrences
1	*Sebastes* spp.	771
2	*Engraulis mordax*	686
3	*Leuroglossus stilbius*	612
4	*Triphoturus mexicanus*	573
5	*Citharichthys* spp.	561
6	*Merluccius productus*	417
7	*Lampanyctus* spp.	393
8	*Stenobrachius leucopsarus*	365
9	*Vinciguerria lucetia*	329
10	*Trachurus symmetricus*	322
11	Unidentified fish larva	284
12	*Bathylagus wesethi*	258
13	*Tarletonbeania crenularis*	243
14	*Diogenichthys laternatus*	232
15	*Sardinops sagax*	221
16	*Protomyctophum crockeri*	211
17	*Bathylagus ochotensis*	208
18	*Cyclothone* spp.	161
19	*Melamphaes* spp.	151
20	*Symbolophorus californiensis*	132
21	*Icichthys lockingtoni*	114
22	*Scomber japonicus*	97
23	Paralepididae	95
24	Labridae	93
25	*Argentina sialis*	89
26	*Stomias atriventer*	86
27	Disintegrated fish larva	74
28	Sternoptychidae	68
28	*Lyopsetta exilis*	68
28	*Diogenichthys atlanticus*	68
31	*Nansenia crassa*	65
32	*Diaphus* spp.	63
33	Gobiidae	61
34	Myctophidae	59
35	Ophidiiformes	52
36	Pleuronectiformes	48
37	*Chauliodus macouni*	47
38	*Parophrys vetulus*	45
39	*Synodus* spp.	44
40	*Cololabis saira*	42
40	*Hippoglossina stomata*	42
42	*Gonichthys tenuiculus*	38
42	*Hypsoblennius* spp.	38
44	*Symphurus* spp.	36
45	*Hygophum atratum*	33
45	*Loweina rara*	33
45	*Ceratoscopelus townsendi*	33
48	Sciaenidae	30

TABLE 2. (cont.)

Rank	Taxon	Occurrences
49	Trachipteridae	28
49	*Etrumeus acuminatus*	28
49	*Peprilus simillimus*	28
52	*Pleuronichthys verticalis*	24
53	*Hygophum* spp.	23
54	Cottidae	22
55	*Paralichthys californicus*	19
56	*Microstoma microstoma*	18
56	*Nansenia candida*	18
58	*Microstomus pacificus*	17
58	Scopelarchidae	17
60	Trichiuridae	16
60	Chiasmodontidae	16
60	Cyclopteridae	16
60	Stomiiformes	16
64	Anguilliformes	15
65	*Idiacanthus antrostomus*	14
66	*Pleuronichthys coenosus*	13
67	*Ichthyococcus* spp.	12
67	Clinidae	12
67	*Prionotus* spp.	12
67	*Poromitra* spp.	12
67	Agonidae	12
67	*Syngnathus* spp.	12
73	*Pleuronichthys* spp.	10
73	*Aristostomias scintillans*	10
73	Serranidae	10
73	*Xystreurys liolepis*	10
73	*Notoscopelus resplendens*	10
78	*Brosmophycis marginata*	9
78	*Zaniolepis* spp.	9
78	*Pleuronichthys ritteri*	9
81	*Tetragonurus cuvieri*	8
82	*Myctophum nitidulum*	7
83	*Glyptocephalus zachirus*	6
83	Macrouridae	6
83	Exocoetidae	6
86	*Sphyraena argentea*	5
86	*Ophidion scrippsae*	5
88	*Oxylebius pictus*	4
88	*Pleuronichthys decurrens*	4
88	*Notolychnus valdiviae*	4
88	*Bathylagus pacificus*	4
88	*Electrona rissoi*	4
93	Atherinidae	3
93	*Scorpaenichthys marmoratus*	3
95	*Sebastolobus* spp.	2
95	*Bathophilus* spp.	2
95	*Hypsopsetta guttulata*	2

TABLE 2. (cont.)

Rank	Taxon	Occurrences
95	Apogonidae	2
95	***Diogenichthys*** spp.	2
95	Scorpaenidae	2
101	Carapidae	1
101	***Scopelogadus bispinosus***	1
101	***Auxis*** spp.	1
101	***Hygophum reinhardtii***	1
101	***Bothus*** spp.	1
101	***Syacium ovale***	1
101	***Porichthys*** spp.	1
101	***Anoplopoma fimbria***	1

TABLE 3. Pooled numbers of fish larvae taken during CalCOFI cruises in 1953. Counts are adjusted for percent of sample sorted and standard haul factor (see text).

Rank	Taxon	Count
1	***Engraulis mordax***	103535
2	***Merluccius productus***	43631
3	***Leuroglossus stilbius***	37018
4	***Sebastes*** spp.	32123
5	***Stenobrachius leucopsarus***	15657
6	***Sardinops sagax***	15087
7	***Triphoturus mexicanus***	14230
8	***Citharichthys*** spp.	12110
9	***Vinciguerria lucetia***	12061
10	***Trachurus symmetricus***	8113
11	***Diogenichthys laternatus***	4391
12	***Bathylagus wesethi***	3029
13	***Lampanyctus*** spp.	3002
14	Unidentified fish larva	2486
15	***Tarletonbeania crenularis***	2345
16	***Bathylagus ochotensis***	1865
17	***Synodus*** spp.	1600
18	***Scomber japonicus***	1339
19	***Cyclothone*** spp.	1248
20	***Protomyctophum crockeri***	1069
21	***Icichthys lockingtoni***	895
22	***Symbolophorus californiensis***	825
23	Pleuronectiformes	811
24	***Argentina sialis***	714
25	***Melamphaes*** spp.	661
26	Labridae	631
27	***Diaphus*** spp.	554
28	***Lyopsetta exilis***	495
29	***Ceratoscopelus townsendi***	466
30	Ophidiiformes	464
31	***Parophrys vetulus***	422
32	***Etrumeus acuminatus***	417
33	Paralepididae	399
34	Disintegrated fish larva	393
35	***Diogenichthys atlanticus***	391
36	***Prionotus*** spp.	384
37	***Peprilus simillimus***	383
38	***Stomias atriventer***	369
39	Gobiidae	310
40	Sternoptychidae	296
41	Myctophidae	288
42	Sciaenidae	266
43	Trichiuridae	243
44	***Symphurus*** spp.	235
44	***Nansenia crassa***	235
46	***Gonichthys tenuiculus***	229
47	***Cololabis saira***	221

TABLE 3. (cont.)

Rank	Taxon	Count
48	*Hippoglossina stomata*	192
49	*Chauliodus macouni*	191
50	*Hypsoblennius* spp.	175
51	*Pleuronichthys verticalis*	165
52	Cottidae	148
53	*Hygophum atratum*	139
54	Serranidae	135
55	*Loweina rara*	130
56	*Hygophum* spp.	123
57	Trachipteridae	111
58	*Paralichthys californicus*	101
59	Stomiiformes	85
60	*Microstoma microstoma*	76
61	*Nansenia candida*	73
62	*Microstomus pacificus*	72
63	Anguilliformes	68
64	*Pleuronichthys* spp.	67
65	Cyclopteridae	66
66	*Idiacanthus antrostomus*	60
67	*Pleuronichthys coenosus*	59
68	Scopelarchidae	56
69	Chiasmodontidae	54
70	*Poromitra* spp.	53
71	Agonidae	52
72	Clinidae	43
73	*Zaniolepis* spp.	38
73	*Aristostomias scintillans*	38
75	*Syngnathus* spp.	37
75	*Ichthyococcus* spp.	37
77	*Notoscopelus resplendens*	36
78	*Xystreurys liolepis*	34
78	*Tetragonurus cuvieri*	34
80	*Brosmophycis marginata*	32
81	*Glyptocephalus zachirus*	30
82	*Pleuronichthys ritteri*	28
83	*Notolychnus valdiviae*	27
83	*Myctophum nitidulum*	27
85	Exocoetidae	24
86	*Pleuronichthys decurrens*	23
87	Macrouridae	22
88	*Scorpaenichthys marmoratus*	21
89	*Sphyraena argentea*	19
89	*Electrona rissoi*	19
91	*Ophidion scrippsae*	18
92	Atherinidae	17
93	*Bathylagus pacificus*	15
94	*Oxylebius pictus*	13
95	Scorpaenidae	11
95	*Bathophilus* spp.	11

TABLE 3. (cont.)

Rank	Taxon	Count
97	***Diogenichthys*** spp.	8
98	Apogonidae	6
98	***Syacium ovale***	6
98	***Sebastolobus*** spp.	6
101	***Anoplopoma fimbria***	5
101	***Hypsopsetta guttulata***	5
101	***Auxis*** spp.	5
104	***Scopelogadus bispinosus***	3
104	***Bothus*** spp.	3
104	Carapidae	3
104	***Porichthys*** spp.	3
104	***Hygophum reinhardtii***	3
	Total	331097

TABLE 4. Numbers of fish larvae taken on stations occupied during CalCOFI cruises in 1953. Counts are adjusted for percent of sample sorted and standard haul factor (see text). Average number is given for stations occupied more than once during a calendar month. Unoccupied stations are indicated by a dash.

Anguilliformes

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	37.0	0.0	0.0	0.0	0.0	–	0.0	0.0	0.0	–	0.0	–	2.6
127.0	34.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.2	–	0.0
130.0	35.0	0.0	5.3	1.5	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.4
130.0	40.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0	45.0	–	0.0	0.0	0.0	0.0	2.8	0.0	0.0	–	–	–	–
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	12.8	–	3.7
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	9.3	–	0.0
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.3	–	3.8
143.0	35.0	2.3	–	–	–	–	–	–	–	–	–	–	–
147.0	30.0	2.4	–	–	–	–	–	–	–	–	–	–	–

Etrumeus acuminatus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
115.0	26.0	–	–	–	–	–	–	–	–	2.2	–	–	–
117.0	26.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	–	0.0
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	0.0	–	–
118.5	25.0	–	–	–	–	–	–	–	–	1.3	–	–	–
118.5	30.0	–	–	–	–	–	–	–	–	6.5	–	–	–
119.0	42.0	–	–	–	–	–	–	–	–	10.1	–	–	–
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	6.1	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.3	18.9	–	0.0
120.0	31.0	–	–	–	–	–	–	–	–	7.0	–	–	–
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	–	0.0
121.0	34.0	–	–	–	–	–	–	–	–	2.9	–	–	–
121.0	41.0	–	–	–	–	–	–	–	–	35.5	–	–	–
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	17.4	–	0.0
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.6	–	0.0	–	3.1
127.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.9	–	0.0	–	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	–	3.5	–	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	4.1	–	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	–	0.0	–	3.7
133.0	35.0	–	–	0.0	0.0	0.0	0.0	0.0	6.3	–	–	–	–
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.8	–	0.0	–	11.5
137.0	30.0	0.0	–	0.0	0.0	0.0	0.0	0.0	21.6	–	–	–	0.0
150.0	19.0	3.3	–	–	–	–	–	–	–	–	–	–	–

TABLE 4. (cont.)

Sardinops sagax

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	43.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	48.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.0	27.0	0.0	0.0	–	0.0	0.0	5.6	6.4	0.0	–	0.0	–	0.0
103.0	35.0	–	–	–	0.0	2.9	0.0	0.0	0.0	–	0.0	–	0.0
105.0	50.0	0.0	0.0	16.6	–	–	–	–	–	–	–	–	–
105.0	70.0	0.0	–	5.4	–	–	–	–	–	–	–	–	–
107.0	35.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	3.5	–	0.0
107.0	40.0	–	–	–	3.1	0.0	0.0	0.0	0.0	–	0.0	–	0.0
107.0	45.0	–	–	–	15.2	0.0	0.0	–	–	–	–	–	–
107.0	60.0	–	–	–	5.6	0.0	0.0	–	–	–	–	–	–
107.0	80.0	–	–	–	2.8	0.0	–	–	–	–	–	–	–
110.0	33.0	–	5.9	0.0	0.0	–	0.0	0.0	0.0	–	0.0	–	0.0
110.0	50.0	0.0	0.0	22.0	0.0	344.7	0.0	0.0	0.0	–	0.0	–	0.0
110.0	55.0	–	–	–	26.9	3.0	0.0	–	–	–	–	–	–
110.0	60.0	3.1	0.0	15.4	36.5	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	65.0	–	–	–	–	–	5.7	–	–	–	–	–	–
110.0	70.0	0.0	–	0.0	3.2	0.0	0.0	–	–	–	–	–	–
113.0	30.0	–	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	–	0.0
113.0	35.0	–	13.4	0.0	15.1	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
113.0	40.0	–	0.0	0.0	4.4	0.0	2.6	0.0	0.0	–	0.0	–	0.0
113.0	45.0	–	–	0.0	16.1	524.5	2.6	–	–	–	–	–	–
113.0	50.0	0.0	0.0	2.3	1.5	4.7	3.0	–	–	–	–	–	–
113.0	55.0	–	–	12.6	7.2	0.0	19.6	–	–	–	–	–	–
113.0	60.0	–	0.0	201.6	17.5	0.0	663.6	–	–	–	–	–	–
113.0	70.0	–	–	–	175.1	0.0	0.0	–	–	–	–	–	–
117.0	26.0	–	0.0	0.0	7.3	0.0	0.0	0.0	17.3	1.1	2.9	–	0.0
117.0	30.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	–	0.0
117.0	40.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	55.9	0.0	–	–
117.0	45.0	–	–	99.9	0.0	46.2	0.0	–	–	–	–	–	–
117.0	50.0	0.0	10.6	72.2	23.8	459.3	0.0	–	–	–	–	–	–
117.0	55.0	–	–	126.0	38.6	21.0	1619.7	–	–	–	–	–	–
117.0	60.0	–	0.0	259.6	78.6	7.1	89.6	–	–	–	–	–	–
117.0	65.0	–	–	–	–	–	4.0	–	–	–	–	–	–
117.0	70.0	–	–	–	5.1	0.0	0.0	–	–	–	–	–	–
118.5	25.0	–	–	–	–	–	–	–	–	9.3	–	–	–
119.0	42.0	–	–	–	–	–	–	–	–	12.1	–	–	–
120.0	25.0	15.7	113.7	0.0	62.9	0.0	0.0	–	31.0	86.6	14.7	–	0.0
120.0	30.0	0.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	316.1	259.2	–	0.0
120.0	31.0	–	–	–	–	–	–	–	–	322.9	–	–	–
120.0	35.0	0.0	0.0	0.0	3.2	6.5	7.4	15.2	0.0	81.5	58.0	–	14.7
120.0	40.0	–	–	61.8	3.5	36.4	0.0	–	–	–	–	–	–
120.0	45.0	0.0	89.3	45.4	1.6	49.7	9.5	0.0	30.3	–	0.0	–	8.0
120.0	50.0	0.0	349.7	5.1	49.3	1124.8	422.8	0.0	14.2	–	0.0	–	0.0
120.0	55.0	–	–	0.0	1.3	0.0	0.0	–	–	–	–	–	–
120.0	60.0	0.0	0.0	0.0	7.3	2.8	0.0	0.0	22.9	–	0.0	–	0.0
120.0	70.0	0.0	32.5	–	0.0	0.0	1.6	0.0	0.0	–	0.0	–	0.0

TABLE 4. (cont.)

Sardinops sagax (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	90.0	-	-	-	0.0	5.3	0.0	0.0	0.0	-	0.0	-	0.0
121.0	30.0	-	-	-	-	-	-	-	-	30.2	-	-	-
121.0	34.0	-	-	-	-	-	-	-	-	49.0	-	-	-
121.0	41.0	-	-	-	-	-	-	-	-	5.5	-	-	-
121.1	26.0	-	-	-	-	-	-	-	-	24.0	-	-	-
121.3	31.0	-	-	-	-	-	-	-	-	-	-	-	2.0
121.5	28.0	-	-	-	-	-	-	-	-	1.1	-	-	-
123.0	37.0	36.0	0.0	140.2	0.0	0.0	0.0	-	2.2	-	71.9	-	74.3
123.0	40.0	-	0.0	19.2	0.0	4.6	7.9	18.0	0.0	-	45.4	-	59.1
123.0	45.0	-	3.0	0.0	0.0	64.3	0.0	3.6	26.7	-	-	-	-
123.0	50.0	-	3.0	8.6	0.0	565.4	8.9	0.0	3.1	-	0.0	-	0.0
123.0	55.0	-	-	2.9	0.0	36.9	89.6	-	-	-	-	-	-
123.0	60.0	-	-	0.0	0.0	6.8	0.0	-	-	-	-	-	-
127.0	34.0	1.5	82.8	131.3	0.0	0.0	3.0	27.6	0.0	-	2.3	-	0.0
127.0	40.0	-	11.2	54.4	0.0	15.5	4.7	0.0	8.7	-	4.4	-	0.0
127.0	45.0	-	0.0	6.8	0.0	679.3	0.0	0.0	0.0	-	-	-	-
127.0	50.0	-	0.0	0.0	13.6	0.0	4.6	0.0	0.0	-	0.0	-	2.7
130.0	30.0	-	5.5	0.9	0.0	0.0	0.0	-	24.8	-	0.0	-	2.0
130.0	35.0	0.0	10.6	0.0	0.0	0.0	0.0	2.8	35.6	-	3.5	-	4.7
130.0	40.0	0.0	2.5	22.3	0.0	42.4	0.0	0.0	0.0	-	77.7	-	0.0
130.0	45.0	-	0.0	3.3	0.0	43.9	0.0	0.0	0.0	-	-	-	-
130.0	50.0	-	0.0	3.1	16.4	63.4	8.6	0.0	0.0	-	0.0	-	0.0
130.0	55.0	-	-	0.0	0.0	6.2	44.3	-	-	-	-	-	-
133.0	25.0	0.0	0.0	59.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	11.1
133.0	30.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	13.1	-	0.0	-	1.8
133.0	35.0	-	-	0.0	0.0	0.0	0.0	0.0	31.5	-	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	19.4	3.7	0.0	0.0	-	10.6	-	0.0
133.0	45.0	-	-	0.0	0.0	10.3	0.0	-	-	-	-	-	-
133.0	50.0	0.0	-	0.0	0.0	53.8	0.0	-	-	-	-	-	-
133.0	55.0	-	-	0.0	0.0	49.3	-	-	-	-	-	-	-
133.0	60.0	-	-	0.0	6.1	2.8	-	-	-	-	-	-	-
137.0	23.0	8.4	587.9	88.0	0.0	0.0	0.0	84.2	99.2	-	0.0	-	0.0
137.0	30.0	46.4	-	49.4	0.0	0.0	15.5	0.0	35.1	-	-	-	0.0
137.0	35.0	-	-	13.7	0.0	0.0	27.1	-	-	-	-	-	-
137.0	40.0	0.0	-	18.7	0.0	0.0	0.0	-	-	-	-	-	-
137.0	50.0	0.0	-	0.0	0.0	0.0	2.4	-	-	-	-	-	-
140.0	30.0	2.0	-	-	-	-	-	-	-	-	-	-	-
143.0	26.0	2.5	-	-	-	-	-	-	-	-	-	-	-
143.0	30.0	74.5	-	-	-	-	-	-	-	-	-	-	-
143.0	35.0	2.3	-	-	-	-	-	-	-	-	-	-	-
150.0	25.0	26.6	-	-	-	-	-	-	-	-	-	-	-
150.0	30.0	125.1	-	-	-	-	-	-	-	-	-	-	-
150.0	40.0	14.5	-	-	-	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

Engraulis mordax

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0	52.0	-	-	-	0.0	0.0	0.0	0.0	4.3	-	-	-	-
73.0	60.0	-	-	-	0.0	-	0.0	3.2	0.0	-	-	-	-
80.0	51.0	52.9	25.7	34.9	2.9	0.0	0.0	16.6	54.4	-	-	-	-
80.0	55.0	-	5.0	11.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
80.0	60.0	0.0	11.6	32.5	0.0	0.0	0.0	23.4	14.8	-	-	-	-
80.0	70.0	0.0	2.2	0.0	0.0	0.0	0.0	5.6	0.0	-	-	-	-
81.8	46.0	-	-	-	-	-	-	-	-	0.0	-	388.4	883.3
82.3	47.0	-	-	-	-	-	-	-	-	7.8	26.4	551.7	622.7
83.0	40.0	-	-	-	22.3	185.1	4.6	12.5	1.5	69.9	25.6	245.1	521.7
83.0	43.0	8.7	69.9	265.5	25.0	9.8	0.0	162.7	26.6	102.6	88.2	179.9	449.9
83.0	48.0	4.2	14.3	2.9	6.0	45.6	0.0	0.0	4.8	27.1	68.4	502.4	481.4
83.0	51.0	27.5	4.1	9.9	0.0	4.4	0.0	0.0	22.0	2.9	90.7	419.6	839.5
83.0	55.0	5.6	0.0	19.5	0.0	0.0	0.0	0.0	35.0	5.9	47.9	501.5	568.3
83.0	60.0	3.0	0.0	117.8	12.0	0.0	0.0	0.0	0.0	-	-	4.7	6.9
85.0	39.0	44.1	908.8	96.4	27.5	45.3	24.8	273.9	4.7	65.6	-	1206.0	180.9
85.0	40.0	2.9	1087.7	55.8	53.4	2.2	11.5	836.9	10.2	26.2	-	770.0	886.4
85.0	45.0	0.0	43.7	13.2	106.3	102.4	0.0	42.6	0.0	23.2	-	461.1	184.5
85.0	50.0	3.1	126.1	2.9	9.7	5.3	0.0	6.6	0.0	7.7	-	51.5	642.6
85.0	55.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	37.8	-	0.0	-
85.0	60.0	0.0	4.0	48.6	0.0	0.0	0.0	0.0	0.0	-	-	1.9	-
87.0	35.0	240.2	357.2	247.0	2.9	104.0	0.0	65.8	24.0	30.7	-	1998.0	905.3
87.0	40.0	5.5	71.0	27.7	3.0	6.1	5.8	99.8	14.9	262.0	-	99.8	539.3
87.0	45.0	-	17.2	23.8	2.3	1.9	0.0	0.0	2.8	15.2	-	57.3	693.2
87.0	50.0	-	18.2	2.0	0.0	43.7	0.0	0.0	16.0	0.0	-	-	130.9
87.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	21.5	22.7
87.0	60.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	9.9	-
90.0	28.0	28.7	54.1	602.9	125.2	83.1	18.6	289.9	-	-	302.8	-	1352.5
90.0	30.0	0.0	22.3	576.2	57.5	7.3	40.0	1781.8	35.8	-	189.2	-	218.1
90.0	35.0	-	-	-	-	67.2	-	-	-	-	-	-	-
90.0	37.0	0.0	0.0	144.6	1.8	-	0.0	0.0	0.0	-	47.0	-	76.3
90.0	41.0	-	-	-	-	29.0	-	-	-	-	-	-	-
90.0	45.0	0.0	0.0	172.9	0.0	13.0	0.0	0.0	0.0	-	2.9	-	83.7
90.0	50.0	-	-	6.4	-	0.0	0.0	0.0	0.0	-	9.8	-	160.4
90.0	53.0	3.2	0.0	-	-	-	-	-	-	-	-	-	-
90.0	55.0	-	-	0.0	5.5	0.0	6.3	0.0	0.0	-	9.7	-	16.0
90.0	80.0	3.7	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-	-
93.0	27.0	4.5	13.4	-	452.6	4.6	189.0	470.6	129.5	-	468.4	-	225.6
93.0	30.0	58.4	24.6	219.8	178.6	7.6	47.7	206.3	173.2	-	109.2	-	819.7
93.0	35.0	-	-	-	12.0	29.3	95.7	0.0	0.0	-	-	-	-
93.0	40.0	0.0	48.0	-	2.9	0.0	0.0	0.0	0.0	-	2.2	-	26.5
93.0	45.0	-	-	-	50.2	0.0	0.0	0.0	-	-	-	-	-
93.0	50.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	3.1
97.0	30.0	71.3	424.4	237.8	127.3	9.4	33.2	151.0	171.5	-	149.2	-	1108.6
97.0	32.0	3.4	179.5	-	-	-	-	-	-	-	-	-	-
97.0	35.0	-	-	70.1	0.0	0.0	0.0	36.1	221.8	-	5.6	-	59.1
97.0	40.0	15.2	252.4	53.2	0.0	0.0	0.0	0.0	0.0	-	115.1	-	33.7

TABLE 4. (cont.)

Engraulis mordax (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	50.0	0.0	24.1	-	0.0	0.0	0.0	0.0	0.0	-	19.6	-	67.8
97.0	60.0	0.0	9.6	-	3.2	0.0	0.0	-	-	-	-	-	-
100.0	29.0	60.7	549.9	325.1	179.8	13.2	0.0	5.2	0.0	-	19.0	-	64.7
100.0	30.0	205.6	64.1	133.4	400.6	7.7	3.1	23.3	20.2	-	17.9	-	234.0
100.0	35.0	-	-	-	3.1	0.0	16.4	0.0	21.4	-	-	-	-
100.0	40.0	0.0	119.1	0.0	0.0	0.0	0.0	0.0	14.4	-	2.7	-	248.2
100.0	45.0	-	-	-	0.0	0.0	0.0	3.3	-	-	-	-	-
100.0	50.0	22.1	14.5	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	60.0	2.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	-	0.0
103.0	30.0	-	-	-	-	11.7	3.3	42.6	15.1	-	148.3	-	2.4
103.0	35.0	-	-	-	5.6	37.6	0.0	0.0	0.0	-	91.4	-	13.8
103.0	40.0	-	-	-	0.0	6.0	0.0	0.0	0.0	-	0.0	-	0.0
105.0	32.0	72.1	105.6	89.7	-	-	-	-	-	-	-	-	-
105.0	35.0	0.0	64.0	2.1	-	-	-	-	-	-	-	-	-
105.0	40.0	0.0	3.2	0.0	-	-	-	-	-	-	-	-	-
105.0	50.0	10.1	0.0	0.0	-	-	-	-	-	-	-	-	-
107.0	32.0	-	-	-	83.2	0.0	0.0	67.8	0.0	-	105.0	-	10.8
107.0	35.0	-	-	-	181.6	106.6	2.8	22.8	0.0	-	1489.4	-	22.1
107.0	40.0	-	-	-	0.0	0.0	9.4	0.0	0.0	-	471.7	-	164.9
107.0	45.0	-	-	-	0.0	0.0	4.7	-	-	-	-	-	-
110.0	33.0	-	470.6	91.1	23.8	-	0.0	4.6	10.3	-	143.5	-	13.4
110.0	35.0	-	54.2	190.1	77.1	27.2	22.2	0.0	20.3	-	292.8	-	25.7
110.0	40.0	-	0.0	294.0	313.5	0.0	0.0	0.0	17.0	-	38.8	-	6.7
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	55.0	-	0.0
110.0	55.0	-	-	-	0.0	0.0	2.9	-	-	-	-	-	-
110.0	60.0	9.2	36.4	5.1	0.0	0.0	5.0	2.7	0.0	-	0.0	-	0.0
110.0	65.0	-	-	-	-	-	11.4	-	-	-	-	-	-
110.0	70.0	2.1	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
113.0	30.0	-	681.8	30.2	3.2	9.2	101.8	8.2	13.1	17.8	8.2	-	5.6
113.0	35.0	-	1286.9	533.9	6.7	42.9	5.1	8.9	0.0	13.9	177.8	-	0.0
113.0	40.0	-	1763.9	489.2	8.4	244.1	0.0	2.0	0.0	-	782.4	-	0.0
113.0	45.0	-	-	83.2	27.0	169.9	0.0	-	-	-	-	-	-
113.0	50.0	0.0	9.9	4.5	51.5	438.0	0.0	-	-	-	-	-	-
113.0	60.0	-	430.1	0.0	0.0	0.0	0.0	-	-	-	-	-	-
113.0	70.0	-	-	-	0.0	2.9	0.0	-	-	-	-	-	-
115.0	26.0	-	-	-	-	-	-	-	-	13.0	-	-	-
115.0	30.0	-	-	-	-	-	-	-	-	136.6	-	-	-
115.0	35.0	-	-	-	-	-	-	-	-	416.6	-	-	-
117.0	26.0	-	90.4	98.3	291.9	216.0	558.1	31.0	37.6	27.6	2.9	-	0.0
117.0	30.0	-	29.0	14.2	185.3	4.4	75.6	9.3	38.5	289.6	10.9	-	27.9
117.0	35.0	-	321.0	5.8	3.9	317.6	5.4	127.3	4.8	127.0	12.9	-	-
117.0	40.0	201.0	23.6	28.0	102.8	18.6	5.3	0.0	7.4	5.9	22.1	-	-
117.0	45.0	-	-	48.6	70.2	11.6	0.0	-	-	-	-	-	-
117.0	50.0	19.3	63.6	128.7	31.4	0.0	25.0	-	-	-	-	-	-
117.0	55.0	-	-	99.0	47.5	0.0	9.7	-	-	-	-	-	-
117.0	60.0	-	3.3	50.2	14.2	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Engraulis mordax (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	70.0	-	-	-	1.5	0.0	0.0	-	-	-	-	-	-
118.3	33.0	-	-	-	-	-	-	-	-	-	-	-	2.6
118.5	25.0	-	-	-	-	-	-	-	-	25.3	-	-	-
118.5	30.0	-	-	-	-	-	-	-	-	73.8	-	-	-
118.5	35.0	-	-	-	-	-	-	-	-	62.7	-	-	-
119.0	42.0	-	-	-	-	-	-	-	-	24.2	-	-	-
120.0	25.0	0.0	682.1	105.1	721.8	97.8	941.9	-	56.8	148.8	5.9	-	0.0
120.0	30.0	5.6	374.4	24.0	312.5	10.8	97.9	38.8	320.8	93.2	108.0	-	1.8
120.0	35.0	42.9	56.3	5.4	99.2	0.0	93.9	144.4	885.8	1.9	30.7	-	0.0
120.0	40.0	-	-	98.9	14.8	0.0	10.5	-	-	-	-	-	-
120.0	43.0	-	-	-	-	-	-	-	-	7.2	-	-	-
120.0	45.0	10769.9	164.6	133.5	7.1	88.3	142.2	0.0	72.0	-	3.6	-	2.7
120.0	50.0	26.5	104.0	76.5	58.7	47.4	4.9	0.0	0.0	-	3.6	-	0.0
120.0	55.0	-	-	2.9	43.8	0.0	0.0	-	-	-	-	-	-
120.0	60.0	0.0	18.9	0.0	14.9	0.0	0.0	0.0	19.6	-	0.0	-	0.0
120.0	70.0	0.0	159.3	-	0.0	0.0	17.5	0.0	0.0	-	0.0	-	0.0
120.0	80.0	0.0	25.0	-	0.0	2.5	0.0	0.0	0.0	-	0.0	-	0.0
120.0	90.0	-	-	-	5.0	0.0	5.5	0.0	0.0	-	0.0	-	0.0
121.0	30.0	-	-	-	-	-	-	-	-	80.6	-	-	-
121.0	34.0	-	-	-	-	-	-	-	-	38.9	-	-	-
121.0	41.0	-	-	-	-	-	-	-	-	5.5	-	-	-
121.3	31.0	-	-	-	-	-	-	-	-	-	-	-	2.0
123.0	37.0	76.5	917.9	41.9	0.0	0.0	2.3	-	17.5	-	27.3	-	53.5
123.0	40.0	-	27.4	42.2	26.9	4.6	10.5	36.0	60.7	-	3.2	-	152.4
123.0	45.0	-	214.4	204.4	325.0	2.4	3.0	7.2	15.3	-	-	-	-
123.0	50.0	-	3.0	104.5	51.3	0.0	0.0	0.0	15.5	-	0.0	-	0.0
123.0	55.0	-	-	242.5	286.3	8.5	0.0	-	-	-	-	-	-
123.0	60.0	-	-	144.7	5.6	4.6	0.0	-	-	-	-	-	-
127.0	34.0	75.5	71.9	878.2	0.0	80.6	3.0	110.3	84.6	-	0.0	-	4.6
127.0	40.0	-	205.1	1814.4	15.9	103.6	14.2	22.0	8.7	-	0.0	-	0.0
127.0	45.0	-	60.1	263.5	47.3	49.4	0.0	5.1	3.7	-	-	-	-
127.0	50.0	-	0.0	25.6	255.4	4.2	4.6	19.0	0.0	-	0.0	-	0.0
127.0	55.0	-	-	9.3	7.2	13.5	8.7	-	-	-	-	-	-
127.0	60.0	-	-	0.0	60.5	0.0	0.0	-	-	-	-	-	-
130.0	30.0	-	589.7	365.4	22.2	0.0	6.0	-	38.9	-	0.0	-	13.8
130.0	35.0	51.3	429.3	149.1	2.6	4.7	12.3	65.3	17.8	-	0.0	-	0.0
130.0	40.0	0.0	25.4	293.6	2.7	2.7	13.1	2.3	0.0	-	0.0	-	0.0
130.0	45.0	-	2.8	6.9	275.6	3.4	0.0	0.0	0.0	-	-	-	-
130.0	50.0	-	2.8	65.6	292.1	7.9	19.9	2.0	0.0	-	0.0	-	0.0
130.0	55.0	-	-	11.6	4.4	37.4	9.8	-	-	-	-	-	-
130.0	60.0	0.0	0.0	0.0	5.3	10.5	0.0	3.0	0.0	-	-	-	0.0
133.0	25.0	6.3	298.9	145.4	24.6	13.7	11.4	0.0	2.0	-	0.0	-	24.1
133.0	30.0	22.8	175.5	128.7	16.0	0.0	11.0	0.0	39.2	-	0.0	-	3.7
133.0	35.0	-	-	255.2	9.5	5.6	84.8	0.0	0.0	-	-	-	-
133.0	40.0	4.4	0.0	0.0	6.4	19.4	84.9	0.0	0.0	-	0.0	-	0.0
133.0	45.0	-	-	1.4	0.0	8.2	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Engraulis mordax (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	50.0	0.0	-	0.0	0.0	158.7	0.0	-	-	-	-	-	-
133.0	55.0	-	-	0.0	18.2	27.6	-	-	-	-	-	-	-
133.0	60.0	-	-	0.0	131.6	0.0	-	-	-	-	-	-	-
137.0	23.0	539.2	1573.5	573.0	65.2	0.0	152.9	18.7	0.0	-	0.0	-	5.7
137.0	30.0	4.4	-	359.0	14.9	4.8	1171.8	2.7	8.1	-	-	-	0.0
137.0	35.0	-	-	2.5	55.9	0.0	504.3	-	-	-	-	-	-
137.0	40.0	0.0	-	1.2	5.6	0.0	2.8	-	-	-	-	-	-
137.0	60.0	-	-	0.0	0.0	3.2	-	-	-	-	-	-	-

Argentina sialis

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
82.3	47.0	-	-	-	-	-	-	-	-	0.0	0.0	2.6	2.2
83.0	43.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.0	0.0
85.0	50.0	0.0	0.0	0.0	0.0	5.3	3.0	0.0	0.0	0.0	-	0.0	0.0
87.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	7.4
87.0	40.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	-	0.0	0.0
90.0	28.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	-	0.0
93.0	30.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
97.0	32.0	0.0	2.8	-	-	-	-	-	-	-	-	-	-
100.0	29.0	0.0	11.3	5.1	2.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	35.0	-	-	-	0.0	2.9	0.0	0.0	0.0	-	0.0	-	0.0
107.0	32.0	-	-	-	0.0	0.0	0.0	0.0	4.5	-	0.0	-	0.0
107.0	35.0	-	-	-	0.0	0.0	0.0	0.0	0.0	-	3.5	-	0.0
110.0	33.0	-	0.0	0.0	5.9	-	0.0	74.2	0.0	-	3.7	-	3.8
110.0	35.0	-	2.6	0.0	0.0	0.0	0.0	28.5	10.2	-	0.0	-	2.3
110.0	70.0	2.1	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
113.0	30.0	-	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
113.0	35.0	-	0.0	54.2	1.4	0.0	0.0	0.0	0.0	5.6	0.0	-	0.0
113.0	40.0	-	8.8	0.0	0.0	0.0	0.0	0.0	0.0	-	3.3	-	0.0
113.0	45.0	-	-	2.5	0.0	0.0	0.0	-	-	-	-	-	-
115.0	35.0	-	-	-	-	-	-	-	-	5.6	-	-	-
117.0	26.0	-	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
117.0	30.0	-	21.1	2.0	3.8	17.8	7.3	1.9	3.2	0.0	0.0	-	0.0
117.0	35.0	-	45.0	34.6	10.7	0.0	0.0	0.0	0.0	0.0	0.0	-	-
117.0	40.0	9.4	0.0	2.8	5.9	0.0	2.6	0.0	0.0	0.0	0.0	-	-
117.0	45.0	-	-	0.0	1.5	0.0	0.0	-	-	-	-	-	-
117.0	50.0	2.8	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
117.0	55.0	-	-	0.0	1.5	0.0	0.0	-	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	9.3	-	0.0	0.0	0.0	-	0.0
120.0	30.0	8.5	0.0	0.0	0.0	16.2	21.8	3.2	0.0	0.0	0.0	-	0.0
120.0	35.0	13.6	0.0	2.7	0.0	0.0	0.0	0.0	3.1	0.0	0.0	-	0.0
120.0	40.0	-	-	0.0	1.4	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Argentina sialis (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	45.0	0.0	0.0	0.0	4.3	22.1	0.0	2.5	0.0	–	0.0	–	5.3
120.0	50.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
123.0	37.0	0.0	0.0	1.9	5.5	0.0	0.0	–	0.0	–	0.0	–	0.0
123.0	40.0	–	0.0	3.4	0.0	0.0	0.0	0.0	0.0	–	0.0	–	9.3
123.0	45.0	–	0.0	0.0	2.5	0.0	0.0	0.0	0.0	–	–	–	–
123.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.6	–	0.0
127.0	34.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0	40.0	–	0.0	5.4	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0	45.0	–	0.0	1.4	0.0	0.0	0.0	0.0	0.0	–	–	–	–
127.0	50.0	–	0.0	0.0	0.0	0.0	0.0	1.9	0.0	–	0.0	–	0.0
130.0	30.0	–	0.0	0.9	0.0	0.0	0.0	–	0.0	–	0.0	–	0.0
130.0	40.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0	45.0	–	0.0	0.0	10.6	0.0	0.0	0.0	0.0	–	–	–	–
133.0	25.0	0.0	0.0	0.0	1.9	0.0	3.8	0.0	0.0	–	0.0	–	0.0
133.0	30.0	0.0	2.6	0.0	3.2	0.0	0.0	0.0	0.0	–	0.0	–	0.0
137.0	30.0	0.0	–	1.2	3.0	9.6	0.0	0.0	0.0	–	–	–	0.0

Microstoma microstoma

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	65.0	–	–	–	–	–	3.4	–	–	–	–	–	–
83.0	65.0	–	–	–	–	–	15.3	–	–	–	–	–	–
87.0	35.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
90.0	50.0	–	–	0.0	–	0.0	0.0	0.0	0.0	–	3.3	–	0.0
97.0	35.0	–	–	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.6
100.0	35.0	–	–	–	3.1	0.0	0.0	0.0	0.0	–	–	–	–
100.0	40.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	–	0.0	–	0.0
100.0	55.0	–	–	–	3.5	6.5	0.0	–	3.3	–	–	–	–
103.0	45.0	–	–	–	2.5	0.0	0.0	–	–	–	–	–	–
110.0	40.0	–	0.0	0.0	0.0	0.0	3.1	0.0	0.0	–	0.0	–	0.0
110.0	45.0	–	–	–	3.7	0.0	0.0	–	–	–	–	–	–
110.0	55.0	–	–	–	0.0	0.0	5.7	–	–	–	–	–	–
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	6.4	–	0.0
117.0	50.0	0.0	0.0	0.0	0.0	2.8	0.0	–	–	–	–	–	–
117.0	55.0	–	–	0.0	1.5	0.0	0.0	–	–	–	–	–	–
120.0	70.0	0.0	0.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.4

Nansenia candida

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	90.0	–	–	–	3.1	0.0	0.0	–	–	–	–	–	–
80.0	80.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	–	–	–	–
80.0	100.0	0.0	–	0.0	2.3	0.0	0.0	0.0	0.0	–	–	–	–
80.0	120.0	–	–	–	4.9	4.8	–	–	–	–	–	–	–

TABLE 4. (cont.)

Nansenia candida (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	80.0	–	–	–	0.0	0.0	6.1	–	–	–	–	–	–
90.0	45.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
90.0	90.0	0.0	–	3.2	2.8	0.0	0.0	–	–	–	–	–	–
90.0	120.0	–	–	–	0.0	2.4	–	–	–	–	–	–	–
100.0	40.0	0.0	0.0	0.0	3.4	0.0	2.8	0.0	0.0	–	0.0	–	0.0
100.0	45.0	–	–	–	0.0	0.0	6.1	0.0	–	–	–	–	–
100.0	50.0	0.0	0.0	0.0	0.0	0.0	12.3	0.0	0.0	–	0.0	–	0.0
100.0	80.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	–	–	–	0.0
100.0	90.0	0.0	–	–	0.0	0.0	3.5	–	–	–	–	–	–
103.0	50.0	–	–	–	0.0	2.9	0.0	–	–	–	–	–	–
107.0	50.0	–	–	–	0.0	3.1	0.0	–	–	–	–	–	–

Nansenia crassa

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	70.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	2.4
105.0	40.0	0.0	3.2	0.0	–	–	–	–	–	–	–	–	–
107.0	80.0	–	–	–	2.8	0.0	–	–	–	–	–	–	–
110.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.7	–	0.0
110.0	60.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	70.0	0.0	–	0.0	3.2	0.0	0.0	–	–	–	–	–	–
113.0	40.0	–	0.0	2.4	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
113.0	50.0	2.8	0.0	0.0	2.8	0.0	0.0	–	–	–	–	–	–
113.0	55.0	–	–	0.0	4.4	0.0	0.0	–	–	–	–	–	–
113.0	70.0	–	–	–	0.0	2.9	2.7	–	–	–	–	–	–
117.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	–	–
117.0	40.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	–	–
117.0	45.0	–	–	0.0	1.5	0.0	0.0	–	–	–	–	–	–
117.0	60.0	–	3.3	0.0	1.5	0.0	0.0	–	–	–	–	–	–
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	–	0.0	–	0.0
120.0	50.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0	55.0	–	–	0.0	4.2	0.0	0.0	–	–	–	–	–	–
120.0	60.0	0.0	0.0	0.0	2.9	0.0	0.0	2.5	0.0	–	0.0	–	0.0
120.0	80.0	2.7	0.0	–	1.2	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0	90.0	–	–	–	0.0	0.0	0.0	0.0	2.8	–	0.0	–	0.0
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.5	–	0.0
123.0	40.0	–	8.2	0.0	0.0	0.0	0.0	0.0	0.0	–	6.5	–	0.0
123.0	45.0	–	0.0	0.0	0.0	0.0	0.0	0.0	3.8	–	–	–	–
123.0	50.0	–	0.0	3.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
123.0	55.0	–	–	1.3	0.0	0.0	0.0	–	–	–	–	–	–
123.0	60.0	–	–	2.8	0.0	0.0	0.0	–	–	–	–	–	–
127.0	40.0	–	0.0	0.0	0.0	5.2	2.4	0.0	0.0	–	2.2	–	0.0
127.0	45.0	–	2.7	0.0	0.0	2.5	0.0	0.0	0.0	–	–	–	–
127.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	3.1	–	0.0	–	0.0

TABLE 4. (cont.)

Nansenia crassa (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	55.0	–	–	0.0	2.4	0.0	0.0	–	–	–	–	–	–
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.4
130.0	50.0	–	2.8	0.0	0.0	2.6	0.0	0.0	0.0	–	0.0	–	0.0
130.0	55.0	–	–	0.0	6.6	6.2	0.0	–	–	–	–	–	–
130.0	60.0	0.0	2.9	0.0	0.0	2.6	0.0	0.0	0.0	–	–	–	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.2	–	0.0
133.0	35.0	–	–	0.0	3.2	0.0	0.0	0.0	0.0	–	–	–	–
133.0	45.0	–	–	0.0	0.0	4.1	0.0	–	–	–	–	–	–
133.0	50.0	0.0	–	0.0	0.0	2.7	6.4	–	–	–	–	–	–
133.0	55.0	–	–	3.4	3.0	0.0	–	–	–	–	–	–	–
133.0	60.0	–	–	3.0	0.0	0.0	–	–	–	–	–	–	–
137.0	35.0	–	–	1.2	0.0	0.0	0.0	–	–	–	–	–	–
137.0	45.0	–	–	5.5	0.0	0.0	0.0	–	–	–	–	–	–
137.0	50.0	2.3	–	0.0	0.0	0.0	0.0	–	–	–	–	–	–
137.0	60.0	–	–	6.5	5.8	0.0	–	–	–	–	–	–	–

Bathylagus ochotensis

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	–	–	–	3.4	0.0	2.7	0.0	0.0	–	–	–	–
60.0	60.0	–	–	–	0.0	2.6	0.0	0.0	0.0	–	–	–	–
60.0	80.0	–	–	–	13.3	5.2	–	0.0	0.0	–	–	–	–
60.0	90.0	–	–	–	0.0	6.4	–	0.0	0.0	–	–	–	–
60.0	100.0	–	–	–	–	2.6	–	0.0	0.0	–	–	–	–
63.0	55.0	–	–	–	2.3	11.0	5.7	0.0	–	–	–	–	–
63.0	65.0	–	–	–	–	11.4	2.7	–	–	–	–	–	–
67.0	55.0	–	–	–	0.0	–	5.2	0.0	0.0	–	–	–	–
70.0	51.0	–	–	–	5.7	2.8	0.0	0.0	–	–	–	–	–
70.0	55.0	–	–	–	3.0	–	0.0	0.0	0.0	–	–	–	–
70.0	60.0	–	–	–	0.0	–	10.9	0.0	0.0	–	–	–	–
70.0	70.0	–	–	–	10.1	5.3	0.0	0.0	0.0	–	–	–	–
70.0	80.0	–	–	–	–	0.0	8.6	0.0	0.0	–	–	–	–
70.0	90.0	–	–	–	9.4	0.0	5.7	–	–	–	–	–	–
73.0	50.0	–	–	–	2.2	–	0.0	0.0	0.0	–	–	–	–
73.0	55.0	–	–	–	–	–	7.6	0.0	–	–	–	–	–
73.0	60.0	–	–	–	5.8	–	4.0	0.0	0.0	–	–	–	–
77.0	55.0	–	–	–	4.3	0.0	0.0	0.0	0.0	–	–	–	–
80.0	51.0	0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	–	–	–	–
80.0	55.0	–	2.5	0.0	6.1	3.3	0.0	0.0	0.0	–	–	–	–
80.0	60.0	12.2	5.8	148.5	5.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	70.0	5.7	103.7	43.6	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	80.0	2.4	7.9	0.0	0.0	18.4	0.0	0.0	0.0	–	–	–	–
80.0	90.0	0.0	–	8.2	0.0	11.2	0.0	0.0	0.0	–	–	–	–
80.0	100.0	2.2	–	2.5	0.0	0.0	0.0	0.0	0.0	–	–	–	–
81.8	46.0	–	–	–	–	–	–	–	–	0.0	–	0.0	2.4

TABLE 4. (cont.)

Bathylagus ochotensis (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
82.3	47.0	–	–	–	–	–	–	–	–	0.0	0.0	0.0	2.2
83.0	43.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	48.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
83.0	51.0	8.3	2.0	6.6	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	5.3
83.0	55.0	0.0	0.0	19.5	6.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	60.0	9.1	6.6	51.5	12.0	0.0	0.0	0.0	0.0	–	–	0.0	0.0
83.0	65.0	–	–	–	–	–	7.7	–	–	–	–	–	–
83.0	70.0	–	–	–	6.0	0.0	0.0	–	–	–	–	–	–
83.0	80.0	–	–	–	0.0	3.3	0.0	–	–	–	–	–	–
83.0	90.0	–	–	–	11.6	5.7	0.0	–	–	–	–	–	–
85.0	39.0	0.0	12.8	0.0	3.5	0.0	0.0	0.0	0.0	0.0	–	0.0	2.4
85.0	40.0	1.5	30.3	3.3	2.8	0.0	0.0	2.6	0.0	0.0	–	0.0	2.7
85.0	45.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	50.0	6.3	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	55.0	3.4	38.9	6.1	5.7	4.3	6.0	0.0	0.0	0.0	–	0.0	–
85.0	60.0	0.0	36.0	73.0	0.0	12.2	0.0	0.0	0.0	–	–	0.0	–
87.0	35.0	0.0	0.0	14.7	2.9	0.0	0.0	0.0	0.0	0.0	–	0.0	2.5
87.0	40.0	0.0	11.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0	45.0	–	2.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	2.5
87.0	50.0	–	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	0.0
87.0	55.0	2.5	12.0	5.5	12.6	5.5	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0	60.0	0.0	42.0	–	3.8	5.8	0.0	0.0	0.0	0.0	–	0.0	–
87.0	70.0	–	–	–	5.1	2.0	0.0	–	–	–	–	–	–
87.0	80.0	–	–	–	5.5	2.3	–	–	–	–	–	–	–
87.0	90.0	–	–	–	3.0	2.6	0.0	–	–	–	–	–	–
90.0	28.0	0.0	0.0	11.9	6.4	0.0	0.0	0.0	–	–	0.0	–	0.0
90.0	30.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	–	0.0	–	0.0
90.0	45.0	2.8	11.2	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.7
90.0	50.0	–	–	3.2	–	0.0	0.0	0.0	0.0	–	0.0	–	0.0
90.0	53.0	12.7	10.9	–	–	–	–	–	–	–	–	–	–
90.0	55.0	–	–	0.0	16.4	0.0	0.0	0.0	0.0	–	0.0	–	0.0
90.0	60.0	8.4	8.9	7.6	0.0	11.8	0.0	0.0	0.0	–	0.0	–	2.9
90.0	70.0	0.0	0.0	40.6	13.7	3.8	–	0.0	0.0	–	0.0	–	–
90.0	80.0	0.0	3.3	24.2	3.2	22.6	0.0	–	–	–	–	–	–
90.0	90.0	0.0	–	0.0	5.7	0.0	0.0	–	–	–	–	–	–
90.0	100.0	–	–	–	2.4	2.8	–	–	–	–	–	–	–
90.0	110.0	–	–	–	1.8	0.0	–	–	–	–	–	–	–
90.0	120.0	–	–	–	9.2	0.0	–	–	–	–	–	–	–
93.0	30.0	2.8	0.0	5.9	11.2	7.6	5.3	0.0	0.0	–	0.0	–	0.0
93.0	35.0	–	–	–	9.0	0.0	0.0	0.0	0.0	–	–	–	–
93.0	40.0	2.8	0.0	–	5.8	0.0	0.0	0.0	0.0	–	0.0	–	2.9
93.0	45.0	–	–	–	44.0	0.0	0.0	0.0	–	–	–	–	–
93.0	50.0	0.0	0.0	6.4	3.4	0.0	0.0	0.0	0.0	–	0.0	–	0.0
93.0	55.0	–	–	–	9.8	–	0.0	–	–	–	–	–	–
93.0	60.0	–	0.0	–	7.5	0.0	0.0	–	–	–	–	–	–
93.0	70.0	–	–	–	12.6	–	0.0	–	–	–	–	–	–

TABLE 4, (cont.)

Bathylagus ochotensis (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	32.0	3.4	8.6	–	–	–	–	–	–	–	–	–	–
97.0	35.0	–	–	0.0	3.2	9.9	3.5	0.0	0.0	–	0.0	–	0.0
97.0	40.0	6.1	14.9	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
97.0	45.0	–	–	–	7.7	0.0	0.0	0.0	–	–	–	–	–
97.0	50.0	6.4	0.0	–	3.2	0.0	0.0	0.0	0.0	–	2.8	–	14.5
97.0	60.0	0.0	0.0	–	15.8	0.0	11.2	–	–	–	–	–	–
97.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
100.0	29.0	0.0	5.6	5.1	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.2
100.0	40.0	2.7	12.9	0.0	3.4	0.0	2.8	0.0	0.0	–	0.0	–	0.0
100.0	50.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	55.0	–	–	–	3.5	6.5	0.0	–	0.0	–	–	–	–
100.0	60.0	2.9	0.0	5.4	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	70.0	3.5	0.0	2.9	5.6	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	2.4
103.0	30.0	–	–	–	–	2.3	0.0	0.0	0.0	–	0.0	–	0.0
103.0	40.0	–	–	–	5.5	0.0	0.0	0.0	0.0	–	0.0	–	0.0
103.0	45.0	–	–	–	5.0	2.6	0.0	–	–	–	–	–	–
103.0	50.0	–	–	–	0.0	2.9	0.0	–	–	–	–	–	–
103.0	55.0	–	–	–	0.0	6.3	0.0	–	–	–	–	–	–
103.0	60.0	–	–	–	3.1	0.0	0.0	–	–	–	–	–	–
103.0	80.0	–	–	–	2.6	0.0	0.0	–	–	–	–	–	–
105.0	40.0	0.0	3.2	0.0	–	–	–	–	–	–	–	–	–
105.0	50.0	3.4	0.0	0.0	–	–	–	–	–	–	–	–	–
107.0	35.0	–	–	–	2.7	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.7
113.0	40.0	–	0.0	0.0	4.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
113.0	50.0	0.0	0.0	0.0	0.0	4.7	0.0	–	–	–	–	–	–
113.0	60.0	–	0.0	3.4	0.0	0.0	0.0	–	–	–	–	–	–
117.0	35.0	–	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	–	–
117.0	40.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	–	–
117.0	45.0	–	–	0.0	2.7	0.0	0.0	–	–	–	–	–	–
117.0	50.0	0.0	0.0	3.1	0.0	2.8	0.0	–	–	–	–	–	–

Bathylagus pacificus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	70.0	2.8	4.3	3.6	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	80.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–

Bathylagus wesethi

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	100.0	–	–	–	–	0.0	5.3	–	–	–	–	–	–
80.0	90.0	0.0	–	0.0	0.0	0.0	0.0	8.0	0.0	–	–	–	–

TABLE 4. (cont.)

Bathylagus wesethi (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 100.0	0.0	–	0.0	2.3	0.0	2.7	11.1	4.7	–	–	–	–
80.0 120.0	–	–	–	0.0	2.4	–	–	–	–	–	–	–
80.0 130.0	–	–	–	2.8	6.0	–	–	–	–	–	–	–
80.0 138.0	–	–	–	–	5.2	–	–	–	–	–	–	–
80.0 145.0	–	–	–	5.1	2.7	–	–	–	–	–	–	–
83.0 65.0	–	–	–	–	–	7.7	–	–	–	–	–	–
83.0 80.0	–	–	–	0.0	0.0	36.5	–	–	–	–	–	–
83.0 90.0	–	–	–	0.0	5.7	3.1	–	–	–	–	–	–
90.0 37.0	0.0	0.0	0.0	0.0	–	0.0	11.0	0.0	–	0.0	–	0.0
90.0 45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.9	–	0.0
90.0 70.0	0.0	0.0	0.0	0.0	1.9	–	0.0	0.0	–	0.0	–	–
90.0 80.0	0.0	0.0	0.0	0.0	0.0	28.6	–	–	–	–	–	–
90.0 90.0	0.0	–	0.0	0.0	0.0	3.5	–	–	–	–	–	–
90.0 110.0	–	–	–	0.0	5.7	–	–	–	–	–	–	–
90.0 130.0	–	–	–	13.4	3.1	–	–	–	–	–	–	–
90.0 139.0	–	–	–	–	5.6	–	–	–	–	–	–	–
90.0 145.0	–	–	–	7.6	22.6	–	–	–	–	–	–	–
93.0 35.0	–	–	–	0.0	0.0	0.0	12.6	0.0	–	–	–	–
93.0 40.0	0.0	0.0	–	0.0	0.0	0.0	7.4	0.0	–	0.0	–	0.0
93.0 55.0	–	–	–	3.3	–	0.0	–	–	–	–	–	–
93.0 60.0	–	0.0	–	2.5	0.0	0.0	–	–	–	–	–	–
93.0 80.0	–	–	–	10.9	–	20.4	–	–	–	–	–	–
93.0 90.0	–	–	–	0.0	–	38.8	–	–	–	–	–	–
97.0 35.0	–	–	0.0	6.5	0.0	0.0	0.0	0.0	–	0.0	–	0.0
97.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0	–	0.0	–	0.0
97.0 45.0	–	–	–	0.0	0.0	0.0	6.7	–	–	–	–	–
97.0 50.0	0.0	0.0	–	0.0	0.0	0.0	12.5	0.0	–	0.0	–	0.0
97.0 60.0	0.0	0.0	–	0.0	0.0	33.7	–	–	–	–	–	–
97.0 65.0	–	–	–	–	–	45.3	–	–	–	–	–	–
97.0 70.0	–	–	–	17.9	0.0	15.0	–	–	–	–	–	–
97.0 80.0	–	–	–	9.6	–	13.0	–	–	–	–	–	–
97.0 90.0	–	–	–	27.3	–	60.5	–	–	–	–	–	–
100.0 29.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	–	0.0	–	0.0
100.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.7
100.0 35.0	–	–	–	3.1	0.0	0.0	0.0	0.0	–	–	–	–
100.0 40.0	0.0	0.0	28.6	17.2	6.1	5.7	0.0	7.2	–	0.0	–	0.0
100.0 45.0	–	–	–	0.0	0.0	6.1	13.2	–	–	–	–	–
100.0 50.0	0.0	0.0	14.3	0.0	0.0	0.0	14.2	6.2	–	17.3	–	0.0
100.0 55.0	–	–	–	0.0	0.0	0.0	–	6.6	–	–	–	–
100.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	30.8	3.6	–	8.0	–	0.0
100.0 70.0	0.0	0.0	5.8	67.4	25.6	4.7	0.0	0.0	–	2.9	–	2.8
100.0 80.0	0.0	16.1	18.0	13.6	12.0	12.5	2.4	0.0	–	–	–	0.0
100.0 90.0	3.1	–	–	0.0	6.1	106.5	–	–	–	–	–	–
100.0 100.0	–	–	–	–	–	24.2	–	–	–	–	–	–
103.0 30.0	–	–	–	–	0.0	0.0	0.0	4.3	–	0.0	–	0.0
103.0 35.0	–	–	–	2.8	0.0	0.0	0.0	0.0	–	0.0	–	0.0

TABLE 4. (cont.)

Bathylagus wesethi (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	40.0	–	–	–	0.0	0.0	6.1	2.9	0.0	–	27.1	–	0.0
103.0	45.0	–	–	–	5.0	0.0	0.0	–	–	–	–	–	–
103.0	50.0	–	–	–	8.1	11.5	12.2	–	–	–	–	–	–
103.0	55.0	–	–	–	0.0	25.3	50.4	–	–	–	–	–	–
103.0	60.0	–	–	–	6.2	11.4	31.0	–	–	–	–	–	–
103.0	65.0	–	–	–	–	–	18.6	–	–	–	–	–	–
103.0	70.0	–	–	–	40.5	5.5	18.2	–	–	–	–	–	–
103.0	80.0	–	–	–	23.8	7.3	14.0	–	–	–	–	–	–
103.0	90.0	–	–	–	–	6.0	17.0	–	–	–	–	–	–
105.0	35.0	0.0	0.0	2.1	–	–	–	–	–	–	–	–	–
105.0	40.0	0.0	0.0	18.5	–	–	–	–	–	–	–	–	–
105.0	70.0	0.0	–	59.6	–	–	–	–	–	–	–	–	–
105.0	80.0	4.6	–	60.7	–	–	–	–	–	–	–	–	–
107.0	35.0	–	–	–	5.4	0.0	0.0	8.6	0.0	–	0.0	–	0.0
107.0	40.0	–	–	–	3.1	0.0	0.0	0.0	0.0	–	3.5	–	0.0
107.0	45.0	–	–	–	12.2	0.0	0.0	–	–	–	–	–	–
107.0	50.0	–	–	–	37.0	9.3	10.1	–	–	–	–	–	–
107.0	55.0	–	–	–	60.7	13.5	27.8	–	–	–	–	–	–
107.0	60.0	–	–	–	27.9	3.3	24.5	–	–	–	–	–	–
107.0	65.0	–	–	–	–	–	23.5	–	–	–	–	–	–
107.0	70.0	–	–	–	0.0	6.0	3.0	–	–	–	–	–	–
107.0	80.0	–	–	–	8.4	2.8	–	–	–	–	–	–	–
107.0	90.0	–	–	–	3.3	0.0	–	–	–	–	–	–	–
110.0	33.0	–	0.0	2.1	0.0	–	0.0	0.0	0.0	–	0.0	–	0.0
110.0	35.0	–	0.0	5.8	0.0	6.8	0.0	0.0	0.0	–	0.0	–	0.0
110.0	40.0	–	0.0	0.0	0.0	2.8	3.1	5.2	0.0	–	0.0	–	0.0
110.0	45.0	–	–	–	7.5	15.7	5.8	–	–	–	–	–	–
110.0	50.0	0.0	0.0	16.5	16.0	13.9	0.0	0.0	0.0	–	0.0	–	0.0
110.0	55.0	–	–	–	6.0	26.7	2.9	–	–	–	–	–	–
110.0	60.0	0.0	0.0	10.3	6.6	0.0	5.0	37.1	66.7	–	16.0	–	2.7
110.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
110.0	70.0	0.0	–	0.0	19.2	2.8	0.0	–	–	–	–	–	–
110.0	80.0	0.0	–	–	0.0	7.2	–	–	–	–	–	–	–
113.0	30.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	–	0.0
113.0	35.0	–	0.0	0.0	33.2	0.0	0.0	0.0	8.5	0.0	17.1	–	0.0
113.0	40.0	–	0.0	2.4	12.6	3.1	0.0	2.0	0.0	–	3.3	–	0.0
113.0	45.0	–	–	0.0	2.9	0.0	2.6	–	–	–	–	–	–
113.0	50.0	0.0	0.0	0.0	1.3	0.0	3.0	–	–	–	–	–	–
113.0	55.0	–	–	0.0	2.9	0.0	0.0	–	–	–	–	–	–
113.0	60.0	–	0.0	0.0	0.0	4.7	4.7	–	–	–	–	–	–
113.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
113.0	70.0	–	–	–	0.0	8.7	18.8	–	–	–	–	–	–
117.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	–	–
117.0	40.0	0.0	0.0	0.0	1.4	2.7	5.3	4.9	2.5	0.0	12.6	–	–
117.0	45.0	–	–	0.0	1.3	0.0	0.0	–	–	–	–	–	–
117.0	50.0	0.0	0.0	6.3	1.7	5.5	0.0	–	–	–	–	–	–

TABLE 4. (cont.)

Bathylagus wesethi (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	55.0	–	–	3.0	19.0	0.0	3.2	–	–	–	–	–	–
117.0	60.0	–	0.0	0.0	42.8	0.0	5.8	–	–	–	–	–	–
117.0	65.0	–	–	–	–	–	8.0	–	–	–	–	–	–
117.0	70.0	–	–	–	16.5	5.0	0.0	–	–	–	–	–	–
118.3	33.0	–	–	–	–	–	–	–	–	–	–	–	2.6
119.0	42.0	–	–	–	–	–	–	–	–	2.0	–	–	–
120.0	25.0	0.0	0.0	0.0	0.9	0.0	0.0	–	0.0	0.0	0.0	–	0.0
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	–	0.0	–	0.0
120.0	50.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	3.5	–	0.0	–	0.0
120.0	55.0	–	–	0.0	6.9	0.0	4.8	–	–	–	–	–	–
120.0	60.0	0.0	0.0	0.0	17.7	2.8	7.5	5.1	0.0	–	4.0	–	0.0
120.0	70.0	0.0	0.0	–	0.9	2.9	4.8	5.9	2.7	–	7.2	–	0.0
120.0	80.0	5.3	0.0	–	0.0	0.0	0.0	5.2	5.4	–	9.4	–	0.0
120.0	90.0	–	–	–	0.0	0.0	0.0	22.4	0.0	–	3.4	–	2.5
121.0	41.0	–	–	–	–	–	–	–	–	2.7	–	–	–
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.5	–	0.0
123.0	45.0	–	0.0	0.0	2.5	0.0	0.0	0.0	0.0	–	–	–	–
123.0	50.0	–	0.0	0.0	0.0	0.0	0.0	3.0	6.2	–	0.0	–	0.0
123.0	55.0	–	–	1.4	2.3	0.0	0.0	–	–	–	–	–	–
123.0	60.0	–	–	1.4	0.0	0.0	6.7	–	–	–	–	–	–
127.0	40.0	–	0.0	0.0	0.0	0.0	2.4	0.0	5.8	–	0.0	–	0.0
127.0	45.0	–	0.0	0.0	0.0	2.5	0.0	0.0	11.0	–	–	–	–
127.0	50.0	–	0.0	0.0	4.5	2.1	0.0	0.0	6.3	–	0.0	–	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	10.7	–	0.0	–	0.0
130.0	40.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	3.6	–	4.1	–	0.0
130.0	45.0	–	0.0	0.0	0.0	0.0	0.0	0.0	3.0	–	–	–	–
130.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	23.8	–	3.7	–	0.0
130.0	55.0	–	–	0.0	75.1	0.0	2.5	–	–	–	–	–	–
130.0	60.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	–	–	–	0.0
133.0	25.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	–	0.0	–	0.0
133.0	35.0	–	–	0.0	6.4	0.0	6.1	0.0	3.2	–	–	–	–
133.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	–	0.0	–	0.0
133.0	55.0	–	–	0.0	0.0	2.0	–	–	–	–	–	–	–
137.0	30.0	0.0	–	0.0	0.0	0.0	0.0	2.7	0.0	–	–	–	0.0
137.0	50.0	0.0	–	1.3	0.0	5.4	0.0	–	–	–	–	–	–

Leuroglossus stilbius

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	70.0	–	–	–	3.3	0.0	–	0.0	0.0	–	–	–	–
60.0	80.0	–	–	–	0.0	5.2	–	0.0	0.0	–	–	–	–
60.0	90.0	–	–	–	0.0	6.4	–	0.0	0.0	–	–	–	–
63.0	55.0	–	–	–	0.0	21.9	0.0	0.0	–	–	–	–	–
63.0	65.0	–	–	–	–	11.4	0.0	–	–	–	–	–	–

TABLE 4. (cont.)

Leuroglossus stilbius (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0	50.0	–	–	–	3.6	–	0.0	–	0.0	–	–	–	–
67.0	55.0	–	–	–	25.2	–	2.6	4.1	0.0	–	–	–	–
70.0	51.0	–	–	–	17.2	0.0	0.0	0.0	–	–	–	–	–
70.0	55.0	–	–	–	12.0	–	0.0	0.0	0.0	–	–	–	–
70.0	70.0	–	–	–	10.1	0.0	10.3	0.0	0.0	–	–	–	–
70.0	80.0	–	–	–	–	0.0	2.9	0.0	0.0	–	–	–	–
70.0	90.0	–	–	–	21.8	0.0	2.8	–	–	–	–	–	–
73.0	50.0	–	–	–	6.6	–	0.0	2.3	0.0	–	–	–	–
73.0	55.0	–	–	–	–	–	5.0	0.0	–	–	–	–	–
73.0	60.0	–	–	–	74.9	–	8.0	3.2	0.0	–	–	–	–
77.0	50.0	–	–	–	3.0	0.0	0.0	0.0	0.0	–	–	–	–
77.0	55.0	–	–	–	17.0	0.0	0.0	13.2	0.0	–	–	–	–
77.0	60.0	–	–	–	–	9.3	9.2	0.0	–	–	–	–	–
77.0	65.0	–	–	–	4.0	–	6.8	6.3	0.0	–	–	–	–
80.0	51.0	196.0	17.1	5.0	66.5	0.0	0.0	0.0	0.0	–	–	–	–
80.0	55.0	–	52.7	115.5	54.5	16.4	0.0	0.0	0.0	–	–	–	–
80.0	60.0	140.3	150.8	1020.8	114.1	0.0	5.3	46.8	0.0	–	–	–	–
80.0	65.0	–	–	–	–	–	6.8	–	–	–	–	–	–
80.0	70.0	17.0	19.4	196.0	8.3	12.6	0.0	0.0	0.0	–	–	–	–
80.0	80.0	0.0	0.0	10.4	6.6	30.6	0.0	0.0	0.0	–	–	–	–
80.0	90.0	0.0	–	0.0	2.8	33.6	0.0	0.0	0.0	–	–	–	–
80.0	100.0	0.0	–	4.9	0.0	0.0	0.0	0.0	0.0	–	–	–	–
81.8	46.0	–	–	–	–	–	–	–	–	0.0	–	29.2	33.9
82.3	47.0	–	–	–	–	–	–	–	–	0.0	0.0	5.2	35.8
83.0	40.0	–	–	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
83.0	43.0	8.7	271.9	0.0	162.2	23.3	13.0	0.0	0.0	0.0	0.0	16.4	75.9
83.0	48.0	1.4	0.0	78.3	7.6	3.3	0.0	0.0	0.0	0.0	0.0	1.6	59.8
83.0	51.0	173.3	38.6	112.5	20.6	0.0	0.0	0.0	0.0	0.0	1.4	0.0	84.5
83.0	55.0	879.8	44.3	312.0	80.2	10.0	0.0	6.0	9.5	0.0	0.0	5.0	50.3
83.0	60.0	268.4	264.0	1442.6	60.2	11.0	29.3	0.0	0.0	–	–	2.4	4.6
83.0	65.0	–	–	–	–	–	15.3	–	–	–	–	–	–
83.0	70.0	–	–	–	38.9	2.4	0.0	–	–	–	–	–	–
83.0	90.0	–	–	–	29.1	0.0	0.0	–	–	–	–	–	–
85.0	39.0	1102.5	1593.6	475.2	46.5	7.4	12.4	6.2	2.4	0.0	–	26.0	11.9
85.0	40.0	605.9	1819.2	219.8	243.4	35.6	23.0	2.6	0.0	0.0	–	21.9	104.1
85.0	45.0	770.5	10.9	151.3	65.1	35.8	14.9	0.0	0.0	0.0	–	0.0	51.7
85.0	50.0	494.5	236.4	23.1	70.3	31.7	0.0	0.0	0.0	5.2	–	0.0	69.1
85.0	55.0	37.2	159.5	48.6	130.8	8.6	0.0	0.0	0.0	2.9	–	9.6	–
85.0	60.0	0.0	784.0	419.5	30.9	42.2	5.0	0.0	5.1	–	–	5.6	–
87.0	35.0	193.8	169.2	370.4	2.9	16.4	0.0	0.0	0.0	0.0	–	25.2	189.4
87.0	40.0	262.1	426.2	273.3	167.2	0.0	0.0	10.3	0.0	2.1	–	0.0	45.4
87.0	45.0	–	277.4	309.9	36.3	5.8	5.7	0.0	0.0	0.0	–	7.6	20.2
87.0	50.0	–	10.1	7.9	41.4	1.6	0.0	0.0	0.0	0.0	–	–	14.3
87.0	55.0	12.3	156.5	49.7	251.2	55.6	0.0	0.0	0.0	2.2	–	0.0	2.5
87.0	60.0	0.0	58.1	–	174.8	27.6	10.4	0.0	7.3	0.0	–	0.0	–
87.0	65.0	–	–	–	–	–	33.0	–	–	–	–	–	–

TABLE 4. (cont.)

Leuroglossus stilbius (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	70.0	–	–	–	123.4	2.0	6.7	–	–	–	–	–	–
87.0	80.0	–	–	–	16.4	6.8	–	–	–	–	–	–	–
87.0	90.0	–	–	–	3.0	7.9	0.0	–	–	–	–	–	–
90.0	28.0	383.4	19.7	546.5	263.2	0.0	0.0	2.7	–	–	12.4	–	26.5
90.0	30.0	84.7	67.0	323.0	377.5	50.8	10.0	0.0	0.0	–	0.0	–	16.2
90.0	35.0	–	–	–	–	63.0	–	–	–	–	–	–	–
90.0	37.0	9.8	822.0	303.9	46.3	–	0.0	0.0	2.8	–	0.0	–	39.5
90.0	41.0	–	–	–	–	92.0	–	–	–	–	–	–	–
90.0	45.0	11.4	313.6	176.3	17.0	65.0	12.6	0.0	3.0	–	0.0	–	32.4
90.0	50.0	–	–	22.3	–	17.4	0.0	6.5	2.5	–	3.3	–	14.6
90.0	53.0	3.2	19.5	–	–	–	–	–	–	–	–	–	–
90.0	55.0	–	–	38.8	175.4	0.0	19.0	0.0	12.7	–	3.2	–	2.7
90.0	60.0	2.8	17.8	30.4	70.8	5.9	6.5	13.8	0.0	–	0.0	–	2.9
90.0	65.0	–	–	–	–	–	34.2	–	–	–	–	–	–
90.0	70.0	0.0	7.4	40.6	4.6	15.0	–	17.5	0.0	–	0.0	–	–
90.0	80.0	0.0	0.0	0.0	19.0	60.2	5.7	–	–	–	–	–	–
90.0	90.0	0.0	–	3.2	0.0	0.0	0.0	–	–	–	–	–	–
93.0	27.0	22.5	40.1	–	0.0	6.9	27.8	0.0	0.0	–	0.0	–	9.4
93.0	30.0	22.2	0.0	104.0	284.6	3.8	68.9	0.0	0.0	–	2.7	–	40.5
93.0	35.0	–	–	–	137.5	87.8	16.5	5.0	0.0	–	–	–	–
93.0	40.0	8.3	72.0	–	118.5	4.4	0.0	0.0	0.0	–	0.0	–	5.9
93.0	45.0	–	–	–	207.2	4.3	0.0	0.0	–	–	–	–	–
93.0	50.0	0.0	142.5	201.0	10.3	26.4	9.7	0.0	0.0	–	0.0	–	15.3
93.0	55.0	–	–	–	19.5	–	18.0	–	–	–	–	–	–
93.0	60.0	–	5.3	–	15.1	9.4	18.2	–	–	–	–	–	–
93.0	65.0	–	–	–	–	–	46.0	–	–	–	–	–	–
93.0	70.0	–	–	–	153.9	–	10.6	–	–	–	–	–	–
97.0	30.0	6.5	2.1	8.7	11.3	11.2	0.0	0.0	0.0	–	0.0	–	0.0
97.0	32.0	23.7	213.8	–	–	–	–	–	–	–	–	–	–
97.0	35.0	–	–	35.0	142.1	84.3	17.3	6.0	0.0	–	0.0	–	2.6
97.0	40.0	18.2	145.5	18.8	9.3	11.4	6.4	2.8	0.0	–	5.9	–	0.0
97.0	45.0	–	–	–	107.8	6.6	0.0	3.3	–	–	–	–	–
97.0	50.0	15.9	14.5	–	22.4	6.5	6.8	0.0	0.0	–	5.6	–	198.4
97.0	55.0	–	–	–	23.0	–	–	–	–	–	–	–	–
97.0	60.0	0.0	12.8	–	245.7	13.1	16.9	–	–	–	–	–	–
97.0	70.0	–	–	–	12.0	2.8	0.0	–	–	–	–	–	–
97.0	80.0	–	–	–	3.2	–	0.0	–	–	–	–	–	–
100.0	29.0	2.6	45.1	15.2	25.3	2.6	0.0	0.0	0.0	–	0.0	–	2.2
100.0	30.0	11.9	2.2	52.8	131.5	10.2	3.1	0.0	3.4	–	0.0	–	8.1
100.0	35.0	–	–	–	12.4	0.0	8.2	0.0	0.0	–	–	–	–
100.0	40.0	2.7	25.8	11.4	3.4	0.0	2.8	0.0	0.0	–	0.0	–	4.6
100.0	45.0	–	–	–	33.9	0.0	0.0	0.0	–	–	–	–	–
100.0	50.0	9.5	26.6	0.0	36.7	9.9	12.3	0.0	0.0	–	0.0	–	3.0
100.0	55.0	–	–	–	45.5	39.1	4.6	–	0.0	–	–	–	–
100.0	60.0	2.9	6.5	128.6	2.8	42.8	0.0	3.1	0.0	–	0.0	–	0.0
100.0	70.0	0.0	3.1	8.7	14.1	0.0	0.0	0.0	0.0	–	0.0	–	0.0

TABLE 4. (cont.)

Leuroglossus stilbius (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	80.0	0.0	0.0	24.0	0.0	3.0	0.0	0.0	0.0	–	–	–	0.0
100.0	90.0	0.0	–	–	2.8	0.0	0.0	–	–	–	–	–	–
103.0	30.0	–	–	–	–	7.0	0.0	0.0	0.0	–	0.0	–	0.0
103.0	35.0	–	–	–	16.7	106.9	41.9	0.0	0.0	–	0.0	–	5.5
103.0	40.0	–	–	–	16.4	41.9	12.2	0.0	0.0	–	3.4	–	0.0
103.0	45.0	–	–	–	182.5	88.4	0.0	–	–	–	–	–	–
103.0	50.0	–	–	–	16.3	48.8	0.0	–	–	–	–	–	–
103.0	55.0	–	–	–	3.0	6.3	0.0	–	–	–	–	–	–
103.0	60.0	–	–	–	49.8	0.0	0.0	–	–	–	–	–	–
103.0	80.0	–	–	–	2.6	0.0	0.0	–	–	–	–	–	–
105.0	32.0	14.8	2.4	0.0	–	–	–	–	–	–	–	–	–
105.0	35.0	2.1	5.8	36.2	–	–	–	–	–	–	–	–	–
105.0	40.0	20.8	37.8	29.0	–	–	–	–	–	–	–	–	–
105.0	70.0	3.8	–	0.0	–	–	–	–	–	–	–	–	–
105.0	80.0	0.0	–	2.9	–	–	–	–	–	–	–	–	–
107.0	32.0	–	–	–	9.2	3.1	0.0	4.5	0.0	–	0.0	–	0.0
107.0	35.0	–	–	–	48.8	7.8	28.5	2.8	0.0	–	3.5	–	2.5
107.0	40.0	–	–	–	6.2	7.2	0.0	2.6	0.0	–	3.5	–	7.2
107.0	45.0	–	–	–	0.0	0.0	4.7	–	–	–	–	–	–
107.0	50.0	–	–	–	3.1	0.0	0.0	–	–	–	–	–	–
110.0	33.0	–	0.0	0.0	11.9	–	0.0	0.0	0.0	–	0.0	–	1.9
110.0	35.0	–	2.6	28.8	120.5	0.0	0.0	0.0	0.0	–	0.0	–	2.3
110.0	40.0	–	8.3	8.4	129.6	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	45.0	–	–	–	3.7	0.0	0.0	–	–	–	–	–	–
110.0	50.0	5.6	3.1	0.0	0.0	2.8	0.0	0.0	0.0	–	3.9	–	0.0
110.0	55.0	–	–	–	3.0	0.0	2.9	–	–	–	–	–	–
110.0	60.0	0.0	27.3	0.0	3.3	0.0	7.5	0.0	0.0	–	0.0	–	0.0
110.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
110.0	70.0	2.1	–	0.0	3.2	0.0	0.0	–	–	–	–	–	–
113.0	30.0	–	9.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
113.0	35.0	–	0.0	81.3	15.5	10.7	0.0	0.0	0.0	0.0	0.0	–	0.0
113.0	40.0	–	32.2	24.1	36.8	12.5	0.0	0.0	0.0	–	0.0	–	0.0
113.0	45.0	–	–	5.0	13.8	20.9	0.0	–	–	–	–	–	–
113.0	50.0	0.0	4.9	4.5	26.5	0.0	0.0	–	–	–	–	–	–
113.0	55.0	–	–	129.2	36.3	0.0	0.0	–	–	–	–	–	–
113.0	60.0	–	41.0	184.8	18.9	0.0	4.7	–	–	–	–	–	–
113.0	70.0	–	–	–	5.6	0.0	0.0	–	–	–	–	–	–
117.0	26.0	–	0.0	0.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	–	0.0
117.0	30.0	–	5.3	2.0	1.0	0.0	2.4	0.0	0.0	0.0	0.0	–	0.0
117.0	35.0	–	36.0	63.4	16.6	7.1	2.7	0.0	0.0	0.0	0.0	–	–
117.0	40.0	15.7	20.6	103.6	14.7	23.9	0.0	0.0	0.0	0.0	0.0	–	–
117.0	45.0	–	–	40.5	11.3	5.8	0.0	–	–	–	–	–	–
117.0	50.0	2.8	42.4	59.7	6.5	19.3	0.0	–	–	–	–	–	–
117.0	55.0	–	–	24.0	7.3	0.0	0.0	–	–	–	–	–	–
117.0	60.0	–	0.0	47.2	2.6	0.0	0.0	–	–	–	–	–	–
120.0	25.0	2.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0	0.0	–	0.0

TABLE 4. (cont.)

Leuroglossus stilbius (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	30.0	0.0	0.0	0.0	0.0	16.2	0.0	0.0	0.0	0.0	0.0	–	0.0
120.0	35.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
120.0	45.0	0.0	50.2	28.4	22.8	27.6	0.0	0.0	0.0	–	0.0	–	10.7
120.0	50.0	0.0	52.0	15.3	5.6	11.8	4.9	0.0	0.0	–	0.0	–	0.0
120.0	55.0	–	–	0.0	18.2	0.0	0.0	–	–	–	–	–	–
120.0	60.0	0.0	10.8	0.0	0.0	2.8	0.0	0.0	6.5	–	0.0	–	4.6
120.0	70.0	0.0	11.8	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
123.0	37.0	0.0	0.0	2.6	5.5	0.0	2.3	–	0.0	–	0.0	–	0.0
123.0	40.0	–	2.7	14.4	26.9	31.9	7.9	0.0	0.0	–	0.0	–	37.3
123.0	45.0	–	3.0	3.2	12.5	0.0	0.0	0.0	0.0	–	–	–	–
123.0	50.0	–	9.1	0.0	0.0	9.1	0.0	3.0	0.0	–	0.0	–	0.0
123.0	55.0	–	–	0.0	0.0	5.7	0.0	–	–	–	–	–	–
127.0	34.0	0.0	0.0	0.7	17.5	0.0	6.0	0.0	0.0	–	0.0	–	0.0
127.0	40.0	–	2.8	59.3	3.2	5.2	0.0	0.0	0.0	–	0.0	–	0.0
127.0	45.0	–	2.7	16.4	0.0	2.5	2.5	0.0	0.0	–	–	–	–
127.0	50.0	–	0.0	0.0	2.3	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0	30.0	–	0.0	1.7	8.3	0.0	0.0	–	0.0	–	0.0	–	0.0
130.0	35.0	0.0	0.0	21.4	0.0	0.0	4.9	2.8	0.0	–	0.0	–	0.0
130.0	40.0	0.0	5.1	21.1	19.1	0.0	0.0	4.6	0.0	–	0.0	–	0.0
130.0	45.0	–	0.0	17.4	21.2	6.8	0.0	0.0	0.0	–	–	–	–
130.0	50.0	–	0.0	4.7	2.7	7.9	2.8	0.0	0.0	–	0.0	–	0.0
130.0	55.0	–	–	0.0	0.0	0.0	4.9	–	–	–	–	–	–
130.0	60.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	–	–	–	0.0
133.0	25.0	0.0	0.0	0.0	1.9	4.6	0.0	0.0	0.0	–	0.0	–	0.0
133.0	30.0	0.0	5.2	1.8	6.4	0.0	5.5	0.0	0.0	–	0.0	–	0.0
133.0	35.0	–	–	1.2	3.2	0.0	6.1	0.0	0.0	–	–	–	–
133.0	45.0	–	–	0.0	0.0	0.0	7.7	–	–	–	–	–	–
133.0	55.0	–	–	0.0	0.0	2.0	–	–	–	–	–	–	–
137.0	30.0	0.0	–	4.0	38.7	4.8	3.1	0.0	2.7	–	–	–	2.0
137.0	35.0	–	–	2.5	20.6	0.0	0.0	–	–	–	–	–	–
137.0	40.0	0.0	–	4.1	0.0	0.0	0.0	–	–	–	–	–	–
137.0	45.0	–	–	1.2	0.0	0.0	0.0	–	–	–	–	–	–

Stomiiformes

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	80.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	–	–	–	–
80.0	90.0	0.0	–	0.0	0.0	0.0	0.0	0.0	2.3	–	–	–	–
80.0	100.0	0.0	–	0.0	0.0	0.0	2.7	0.0	2.3	–	–	–	–
80.0	145.0	–	–	–	0.0	10.8	–	–	–	–	–	–	–
80.0	160.0	–	–	–	0.0	12.2	–	–	–	–	–	–	–
83.0	90.0	–	–	–	0.0	0.0	6.1	–	–	–	–	–	–
90.0	145.0	–	–	–	2.5	0.0	–	–	–	–	–	–	–
93.0	35.0	–	–	–	0.0	0.0	0.0	0.0	10.9	–	–	–	–
93.0	80.0	–	–	–	0.0	–	10.2	–	–	–	–	–	–

TABLE 4. (cont.)

Stomiiformes (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 80.0	–	–	–	3.2	–	0.0	–	–	–	–	–	–
100.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	–	0.0	–	0.0
107.0 45.0	–	–	–	3.0	0.0	0.0	–	–	–	–	–	–
113.0 50.0	0.0	0.0	0.0	0.0	4.7	0.0	–	–	–	–	–	–
120.0 80.0	0.0	0.0	–	1.2	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0 90.0	–	–	–	0.0	0.0	0.0	5.6	0.0	–	0.0	–	0.0

Cyclothone spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 90.0	0.0	–	0.0	0.0	0.0	0.0	2.7	0.0	–	–	–	–
80.0 100.0	0.0	–	0.0	2.3	1.3	5.3	14.8	2.3	–	–	–	–
80.0 120.0	–	–	–	4.9	38.4	–	–	–	–	–	–	–
80.0 130.0	–	–	–	0.0	12.1	–	–	–	–	–	–	–
80.0 138.0	–	–	–	–	15.7	–	–	–	–	–	–	–
80.0 145.0	–	–	–	38.9	13.6	–	–	–	–	–	–	–
80.0 153.0	–	–	–	–	6.0	–	–	–	–	–	–	–
80.0 160.0	–	–	–	0.0	42.6	–	–	–	–	–	–	–
83.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	–	–	2.4	0.0
83.0 70.0	–	–	–	3.0	0.0	0.0	–	–	–	–	–	–
83.0 90.0	–	–	–	5.8	5.7	0.0	–	–	–	–	–	–
87.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	–	0.0	0.0
87.0 45.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	–	0.0	0.0
90.0 45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.9	–	0.0
90.0 80.0	0.0	0.0	0.0	0.0	0.0	2.9	–	–	–	–	–	–
90.0 120.0	–	–	–	0.0	2.4	–	–	–	–	–	–	–
90.0 130.0	–	–	–	3.4	9.2	–	–	–	–	–	–	–
90.0 139.0	–	–	–	–	8.4	–	–	–	–	–	–	–
90.0 145.0	–	–	–	2.5	11.3	–	–	–	–	–	–	–
90.0 152.5	–	–	–	–	7.4	–	–	–	–	–	–	–
90.0 160.0	–	–	–	23.3	7.6	–	–	–	–	–	–	–
93.0 80.0	–	–	–	0.0	–	2.0	–	–	–	–	–	–
93.0 90.0	–	–	–	3.3	–	3.2	–	–	–	–	–	–
97.0 70.0	–	–	–	3.0	0.0	3.0	–	–	–	–	–	–
97.0 90.0	–	–	–	0.0	–	21.0	–	–	–	–	–	–
100.0 40.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	–	5.8	–	0.0
100.0 55.0	–	–	–	0.0	0.0	4.6	–	0.0	–	–	–	–
100.0 60.0	0.0	0.0	2.7	0.0	0.0	0.0	3.1	0.0	–	13.3	–	0.0
100.0 70.0	0.0	0.0	0.0	5.6	6.4	0.0	0.0	0.0	–	0.0	–	0.0
100.0 80.0	0.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	2.4
100.0 90.0	24.5	–	–	0.0	6.1	3.5	–	–	–	–	–	–
100.0 100.0	–	–	–	–	–	2.7	–	–	–	–	–	–
103.0 40.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	10.2	–	0.0
103.0 50.0	–	–	–	0.0	2.9	0.0	–	–	–	–	–	–

TABLE 4. (cont.)

Cyclothone spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	55.0	-	-	-	0.0	0.0	8.4	-	-	-	-	-	-
103.0	60.0	-	-	-	6.2	0.0	0.0	-	-	-	-	-	-
103.0	80.0	-	-	-	18.5	2.4	16.8	-	-	-	-	-	-
103.0	90.0	-	-	-	-	17.9	0.0	-	-	-	-	-	-
105.0	35.0	0.0	0.0	6.4	-	-	-	-	-	-	-	-	-
105.0	40.0	0.0	0.0	5.3	-	-	-	-	-	-	-	-	-
105.0	50.0	0.0	0.0	5.5	-	-	-	-	-	-	-	-	-
105.0	70.0	3.8	-	0.0	-	-	-	-	-	-	-	-	-
105.0	80.0	13.9	-	11.6	-	-	-	-	-	-	-	-	-
107.0	35.0	-	-	-	0.0	0.0	0.0	0.0	0.0	-	3.5	-	0.0
107.0	40.0	-	-	-	3.1	0.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0	45.0	-	-	-	0.0	0.0	4.7	-	-	-	-	-	-
107.0	50.0	-	-	-	3.1	9.3	5.1	-	-	-	-	-	-
107.0	55.0	-	-	-	13.5	0.0	11.1	-	-	-	-	-	-
107.0	60.0	-	-	-	8.4	3.3	8.9	-	-	-	-	-	-
107.0	70.0	-	-	-	0.0	0.0	3.0	-	-	-	-	-	-
107.0	80.0	-	-	-	36.4	11.3	-	-	-	-	-	-	-
107.0	90.0	-	-	-	6.6	12.7	-	-	-	-	-	-	-
110.0	50.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.9	-	2.8
110.0	55.0	-	-	-	0.0	0.0	2.9	-	-	-	-	-	-
110.0	60.0	0.0	0.0	12.8	0.0	0.0	0.0	0.0	3.5	-	0.0	-	0.0
110.0	65.0	-	-	-	-	-	2.8	-	-	-	-	-	-
110.0	70.0	0.0	-	2.8	12.8	2.8	0.0	-	-	-	-	-	-
110.0	80.0	0.0	-	-	0.0	2.4	-	-	-	-	-	-	-
110.0	90.0	-	-	-	3.1	0.0	-	-	-	-	-	-	-
113.0	35.0	-	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
113.0	40.0	-	0.0	2.4	7.5	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	65.0	-	-	-	-	-	2.8	-	-	-	-	-	-
113.0	70.0	-	-	-	0.0	5.8	8.1	-	-	-	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	-	-
117.0	45.0	-	-	2.7	0.0	0.0	0.0	-	-	-	-	-	-
117.0	50.0	0.0	0.0	0.0	1.6	0.0	0.0	-	-	-	-	-	-
117.0	55.0	-	-	6.0	8.8	0.0	0.0	-	-	-	-	-	-
117.0	60.0	-	3.3	0.0	24.9	0.0	0.0	-	-	-	-	-	-
117.0	70.0	-	-	-	15.3	5.0	5.6	-	-	-	-	-	-
120.0	45.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.6	-	0.0
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	-	0.0	-	0.0
120.0	55.0	-	-	0.0	0.0	0.0	2.4	-	-	-	-	-	-
120.0	60.0	0.0	0.0	2.9	1.5	0.0	10.0	0.0	3.3	-	19.9	-	0.0
120.0	65.0	-	-	-	-	-	5.1	-	-	-	-	-	-
120.0	70.0	0.0	3.0	-	7.2	0.0	1.6	0.0	0.0	-	3.6	-	0.0
120.0	80.0	5.3	15.7	-	16.0	4.9	2.6	5.2	5.4	-	0.0	-	2.5
120.0	90.0	-	-	-	0.0	0.0	0.0	11.2	2.8	-	0.0	-	0.0
123.0	40.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.2	-	0.0
123.0	50.0	-	3.0	0.0	0.0	0.0	0.0	0.0	0.0	-	14.6	-	0.0
123.0	55.0	-	-	0.0	0.0	2.8	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Cyclothone spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0 60.0	–	–	1.4	0.0	0.0	0.0	–	–	–	–	–	–
127.0 45.0	–	2.7	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
127.0 50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	4.0	–	0.0
127.0 60.0	–	–	1.3	0.0	0.0	0.0	–	–	–	–	–	–
130.0 45.0	–	0.0	0.0	0.0	0.0	0.0	0.0	3.0	–	–	–	–
130.0 50.0	–	2.8	5.5	0.0	0.0	0.0	2.0	4.0	–	0.0	–	0.0
130.0 55.0	–	–	3.1	0.0	0.0	0.0	–	–	–	–	–	–
130.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	–	–	–	0.0
133.0 40.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	–	7.1	–	0.0
133.0 45.0	–	–	0.0	0.0	2.1	0.0	–	–	–	–	–	–
133.0 60.0	–	–	0.0	3.1	0.0	–	–	–	–	–	–	–
137.0 30.0	0.0	–	0.0	0.0	0.0	0.0	2.7	0.0	–	–	–	0.0
137.0 60.0	–	–	3.2	2.9	0.0	–	–	–	–	–	–	–

Ichthyococcus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 120.0	–	–	–	2.5	0.0	–	–	–	–	–	–	–
93.0 27.0	0.0	0.0	–	0.0	0.0	0.0	0.0	0.0	–	3.4	–	0.0
103.0 80.0	–	–	–	0.0	0.0	2.8	–	–	–	–	–	–
110.0 33.0	–	0.0	4.1	0.0	–	0.0	0.0	0.0	–	0.0	–	0.0
110.0 50.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	–	0.0	–	0.0
110.0 70.0	0.0	–	2.8	0.0	0.0	0.0	–	–	–	–	–	–
113.0 55.0	–	–	0.0	2.9	0.0	0.0	–	–	–	–	–	–
117.0 60.0	–	0.0	0.0	1.5	0.0	0.0	–	–	–	–	–	–
117.0 70.0	–	–	–	1.5	0.0	0.0	–	–	–	–	–	–
127.0 34.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0 55.0	–	–	0.0	2.2	0.0	0.0	–	–	–	–	–	–
133.0 35.0	–	–	0.0	0.0	0.0	0.0	0.0	3.2	–	–	–	–

Vinciguerria lucetia

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 100.0	0.0	–	0.0	0.0	1.3	0.0	3.7	56.2	–	–	–	–
80.0 145.0	–	–	–	0.0	10.8	–	–	–	–	–	–	–
80.0 160.0	–	–	–	0.0	9.1	–	–	–	–	–	–	–
83.0 40.0	–	–	–	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.0 39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	–	0.0	0.0
90.0 90.0	2.5	–	0.0	0.0	0.0	0.0	–	–	–	–	–	–
90.0 130.0	–	–	–	0.0	3.1	–	–	–	–	–	–	–
90.0 152.5	–	–	–	–	24.6	–	–	–	–	–	–	–
90.0 160.0	–	–	–	25.9	59.2	–	–	–	–	–	–	–
93.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.7	–	0.0
93.0 35.0	–	–	–	0.0	0.0	3.3	0.0	0.0	–	–	–	–

TABLE 4. (cont.)

Vinciguerria lucetia (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	80.0	–	–	–	0.0	–	2.0	–	–	–	–	–	–
97.0	60.0	0.0	0.0	–	0.0	0.0	11.2	–	–	–	–	–	–
97.0	70.0	–	–	–	3.0	0.0	6.0	–	–	–	–	–	–
97.0	90.0	–	–	–	0.0	–	57.9	–	–	–	–	–	–
100.0	40.0	0.0	0.0	11.4	0.0	0.0	0.0	0.0	21.7	–	0.0	–	0.0
100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	–	248.5	–	0.0
100.0	55.0	–	–	–	0.0	0.0	0.0	–	3.3	–	–	–	–
100.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	58.3	–	0.0
100.0	70.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	38.0	–	2.8
100.0	80.0	6.0	0.0	9.0	0.0	6.0	3.1	9.7	0.0	–	–	–	12.2
100.0	90.0	70.4	–	–	0.0	18.2	17.8	–	–	–	–	–	–
100.0	100.0	–	–	–	–	–	16.1	–	–	–	–	–	–
103.0	30.0	–	–	–	–	0.0	0.0	0.0	2.2	–	0.0	–	0.0
103.0	35.0	–	–	–	0.0	0.0	0.0	0.0	13.3	–	0.0	–	0.0
103.0	40.0	–	–	–	0.0	0.0	0.0	0.0	5.6	–	10.2	–	2.5
103.0	55.0	–	–	–	0.0	6.3	4.2	–	–	–	–	–	–
103.0	70.0	–	–	–	0.0	0.0	6.1	–	–	–	–	–	–
103.0	80.0	–	–	–	7.9	19.5	42.0	–	–	–	–	–	–
103.0	90.0	–	–	–	–	23.9	36.5	–	–	–	–	–	–
105.0	40.0	0.0	0.0	5.3	–	–	–	–	–	–	–	–	–
105.0	50.0	3.4	0.0	0.0	–	–	–	–	–	–	–	–	–
105.0	70.0	3.8	–	16.3	–	–	–	–	–	–	–	–	–
105.0	80.0	13.9	–	5.8	–	–	–	–	–	–	–	–	–
107.0	50.0	–	–	–	9.2	3.1	5.1	–	–	–	–	–	–
107.0	55.0	–	–	–	6.7	0.0	5.6	–	–	–	–	–	–
107.0	60.0	–	–	–	2.8	0.0	15.6	–	–	–	–	–	–
107.0	65.0	–	–	–	–	–	2.3	–	–	–	–	–	–
107.0	70.0	–	–	–	0.0	0.0	23.7	–	–	–	–	–	–
107.0	80.0	–	–	–	67.2	31.0	–	–	–	–	–	–	–
107.0	90.0	–	–	–	16.5	57.2	–	–	–	–	–	–	–
110.0	35.0	–	2.6	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	40.0	–	2.8	2.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	45.0	–	–	–	0.0	0.0	2.9	–	–	–	–	–	–
110.0	50.0	5.6	9.4	2.8	3.2	0.0	0.0	0.0	0.0	–	11.8	–	5.7
110.0	55.0	–	–	–	0.0	3.0	0.0	–	–	–	–	–	–
110.0	60.0	0.0	0.0	15.4	0.0	2.9	0.0	0.0	133.4	–	28.7	–	0.0
110.0	70.0	2.1	–	14.0	0.0	2.8	0.0	–	–	–	–	–	–
110.0	80.0	7.0	–	–	0.0	7.2	–	–	–	–	–	–	–
110.0	90.0	–	–	–	3.1	5.2	–	–	–	–	–	–	–
113.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	–	0.0
113.0	40.0	–	0.0	0.0	6.8	0.0	0.0	0.0	7.4	–	6.5	–	0.0
113.0	45.0	–	–	0.0	1.8	0.0	0.0	–	–	–	–	–	–
113.0	50.0	8.4	0.0	0.0	0.0	0.0	0.0	–	–	–	–	–	–
113.0	60.0	–	2.6	0.0	0.0	0.0	0.0	–	–	–	–	–	–
113.0	65.0	–	–	–	–	–	19.9	–	–	–	–	–	–
113.0	70.0	–	–	–	0.0	14.6	126.4	–	–	–	–	–	–

TABLE 4. (cont.)

Vinciguerria lucetia (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.2	–	–
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	356.0	–	–
117.0	50.0	0.0	0.0	0.0	1.6	0.0	0.0	–	–	–	–	–	–
117.0	55.0	–	–	15.0	16.1	2.6	0.0	–	–	–	–	–	–
117.0	60.0	–	6.5	0.0	19.0	0.0	0.0	–	–	–	–	–	–
117.0	70.0	–	–	–	27.7	7.6	33.8	–	–	–	–	–	–
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	–	0.0
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.4	–	0.0	–	8.0
120.0	50.0	5.3	0.0	0.0	3.7	0.0	2.4	2.4	10.6	–	0.0	–	2.7
120.0	55.0	–	–	0.0	0.0	0.0	14.3	–	–	–	–	–	–
120.0	60.0	7.3	0.0	20.4	1.4	0.0	17.6	2.5	3.3	–	67.5	–	41.6
120.0	65.0	–	–	–	–	–	25.5	–	–	–	–	–	–
120.0	70.0	2.4	3.0	–	21.7	0.0	20.7	20.6	121.1	–	25.3	–	2.4
120.0	80.0	5.3	18.8	–	17.4	4.9	0.0	56.8	114.2	–	9.4	–	5.1
120.0	90.0	–	–	–	11.3	5.3	3.7	176.4	66.5	–	40.6	–	35.4
121.0	41.0	–	–	–	–	–	–	–	–	8.2	–	–	–
121.3	31.0	–	–	–	–	–	–	–	–	–	–	–	2.0
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	9.9	–	3.0
123.0	40.0	–	2.7	0.0	0.0	0.0	0.0	0.0	2.6	–	94.0	–	65.3
123.0	45.0	–	0.0	1.3	2.5	0.0	0.0	14.4	57.3	–	–	–	–
123.0	50.0	–	0.0	21.1	0.0	0.0	0.0	0.0	52.9	–	109.2	–	35.7
123.0	55.0	–	–	31.7	27.5	0.0	0.0	–	–	–	–	–	–
123.0	60.0	–	–	137.0	25.2	132.2	89.6	–	–	–	–	–	–
127.0	34.0	0.0	2.2	2.9	0.0	0.0	0.0	0.0	5.6	–	0.0	–	0.0
127.0	40.0	–	14.1	0.0	0.0	0.0	0.0	0.0	11.6	–	4.4	–	2.9
127.0	45.0	–	16.4	9.6	0.0	2.5	0.0	17.9	33.1	–	–	–	–
127.0	50.0	–	0.0	31.3	6.8	0.0	0.0	0.0	75.1	–	4.0	–	0.0
127.0	55.0	–	–	45.6	36.0	10.8	0.0	–	–	–	–	–	–
127.0	60.0	–	–	76.9	134.8	11.8	15.8	–	–	–	–	–	–
130.0	30.0	–	0.0	0.9	0.0	0.0	0.0	–	0.0	–	29.4	–	0.0
130.0	35.0	13.4	10.6	1.4	5.3	0.0	0.0	36.9	3.6	–	10.6	–	21.3
130.0	40.0	131.1	10.2	14.4	35.5	2.7	0.0	4.6	118.8	–	77.7	–	28.0
130.0	45.0	–	33.1	10.8	0.0	0.0	5.6	6.4	129.8	–	–	–	–
130.0	50.0	–	36.5	27.9	65.5	13.2	0.0	257.0	131.0	–	3.7	–	0.0
130.0	55.0	–	–	100.7	468.5	127.9	0.0	–	–	–	–	–	–
130.0	60.0	0.0	8.8	173.2	26.5	0.0	275.5	0.0	204.0	–	–	–	0.0
133.0	25.0	2.1	0.0	14.1	0.0	0.0	0.0	0.0	0.0	–	12.8	–	0.0
133.0	30.0	22.8	0.0	5.9	3.2	0.0	0.0	0.0	28.3	–	37.2	–	0.0
133.0	35.0	–	–	29.2	216.2	0.0	12.1	0.0	3.2	–	–	–	–
133.0	40.0	13.2	14.2	22.7	22.5	0.0	0.0	2.3	22.3	–	237.8	–	101.5
133.0	45.0	–	–	24.9	356.7	0.0	15.4	–	–	–	–	–	–
133.0	50.0	7.1	–	21.1	29.4	142.6	0.0	–	–	–	–	–	–
133.0	55.0	–	–	40.6	437.8	33.5	–	–	–	–	–	–	–
133.0	60.0	–	–	97.7	177.5	0.0	–	–	–	–	–	–	–
137.0	23.0	0.0	0.0	3.8	0.0	0.0	0.0	14.0	0.0	–	13.4	–	7.6
137.0	30.0	2.2	–	3.8	3.0	0.0	0.0	82.2	0.0	–	–	–	0.0

TABLE 4. (cont.)

Vinciguerria lucetia (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	35.0	–	–	3.7	0.0	0.0	0.0	–	–	–	–	–	–
137.0	40.0	7.6	–	9.4	8.4	0.0	0.0	–	–	–	–	–	–
137.0	45.0	–	–	40.6	27.7	3.2	2.3	–	–	–	–	–	–
137.0	50.0	2.3	–	76.8	41.1	0.0	2.4	–	–	–	–	–	–
137.0	55.0	–	–	132.1	10.2	16.5	–	–	–	–	–	–	–
137.0	60.0	–	–	262.4	205.9	9.5	–	–	–	–	–	–	–
140.0	35.0	2.7	–	–	–	–	–	–	–	–	–	–	–
140.0	40.0	10.6	–	–	–	–	–	–	–	–	–	–	–
143.0	26.0	7.4	–	–	–	–	–	–	–	–	–	–	–
143.0	30.0	53.2	–	–	–	–	–	–	–	–	–	–	–
143.0	35.0	11.5	–	–	–	–	–	–	–	–	–	–	–
147.0	20.0	4.0	–	–	–	–	–	–	–	–	–	–	–
147.0	30.0	28.4	–	–	–	–	–	–	–	–	–	–	–
150.0	19.0	1.6	–	–	–	–	–	–	–	–	–	–	–
150.0	25.0	13.3	–	–	–	–	–	–	–	–	–	–	–
150.0	30.0	73.4	–	–	–	–	–	–	–	–	–	–	–
150.0	40.0	4.8	–	–	–	–	–	–	–	–	–	–	–

Sternoptychidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	70.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	80.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	90.0	0.0	–	0.0	2.8	0.0	0.0	0.0	0.0	–	–	–	–
80.0	145.0	–	–	–	0.0	2.7	–	–	–	–	–	–	–
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
83.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	0.0	6.9
87.0	45.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	2.5
87.0	60.0	0.0	0.0	–	0.0	0.0	0.0	0.0	0.0	0.0	–	2.5	–
90.0	28.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	–	–	0.0	–	0.0
90.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.9
90.0	145.0	–	–	–	2.5	0.0	–	–	–	–	–	–	–
93.0	40.0	0.0	0.0	–	0.0	0.0	3.3	0.0	0.0	–	0.0	–	0.0
93.0	50.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
93.0	60.0	–	0.0	–	2.5	0.0	6.1	–	–	–	–	–	–
97.0	32.0	3.4	0.0	–	–	–	–	–	–	–	–	–	–
97.0	40.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.6
100.0	30.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	40.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	80.0	0.0	0.0	3.0	0.0	0.0	6.3	0.0	0.0	–	–	–	0.0
100.0	90.0	9.2	–	–	0.0	0.0	0.0	–	–	–	–	–	–
103.0	70.0	–	–	–	14.5	0.0	0.0	–	–	–	–	–	–
103.0	90.0	–	–	–	–	3.0	0.0	–	–	–	–	–	–
105.0	35.0	2.1	0.0	0.0	–	–	–	–	–	–	–	–	–
105.0	40.0	0.0	0.0	2.6	–	–	–	–	–	–	–	–	–

TABLE 4. (cont.)

Sternoptychidae (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
105.0	50.0	3.4	0.0	0.0	–	–	–	–	–	–	–	–	–
105.0	60.0	4.3	0.0	5.5	–	–	–	–	–	–	–	–	–
105.0	70.0	3.8	–	0.0	–	–	–	–	–	–	–	–	–
105.0	80.0	9.3	–	0.0	–	–	–	–	–	–	–	–	–
107.0	80.0	–	–	–	2.8	0.0	–	–	–	–	–	–	–
110.0	40.0	–	0.0	0.0	0.0	0.0	0.0	2.6	0.0	–	0.0	–	0.0
110.0	60.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	70.0	2.1	–	0.0	0.0	0.0	0.0	–	–	–	–	–	–
113.0	55.0	–	–	0.0	4.4	0.0	0.0	–	–	–	–	–	–
117.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	–	–
117.0	60.0	–	9.8	0.0	4.4	0.0	0.0	–	–	–	–	–	–
117.0	70.0	–	–	–	7.5	0.0	0.0	–	–	–	–	–	–
120.0	45.0	0.0	2.8	0.0	1.4	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0	50.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0	60.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	3.3	–	0.0	–	0.0
120.0	80.0	0.0	0.0	–	1.2	0.0	0.0	0.0	0.0	–	9.4	–	0.0
120.0	90.0	–	–	–	1.7	0.0	0.0	0.0	0.0	–	0.0	–	0.0
123.0	40.0	–	0.0	1.7	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
123.0	50.0	–	0.0	1.5	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0	40.0	–	5.6	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0	45.0	–	2.7	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
127.0	60.0	–	–	2.7	0.0	0.0	0.0	–	–	–	–	–	–
130.0	40.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	–	4.1	–	0.0
130.0	45.0	–	2.8	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
130.0	60.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	0.0
133.0	35.0	–	–	1.4	0.0	0.0	0.0	0.0	0.0	–	–	–	–
133.0	40.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
133.0	55.0	–	–	6.8	0.0	3.9	–	–	–	–	–	–	–
133.0	60.0	–	–	5.9	0.0	0.0	–	–	–	–	–	–	–
137.0	30.0	0.0	–	1.3	0.0	0.0	0.0	0.0	0.0	–	–	–	0.0
137.0	50.0	2.3	–	1.3	0.0	0.0	0.0	–	–	–	–	–	–

Chauliodus macouni

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	70.0	–	–	–	0.0	0.0	–	5.5	0.0	–	–	–	–
63.0	60.0	–	–	–	–	–	2.9	–	–	–	–	–	–
67.0	55.0	–	–	–	4.2	–	2.6	4.1	0.0	–	–	–	–
70.0	55.0	–	–	–	0.0	–	5.8	2.6	0.0	–	–	–	–
70.0	70.0	–	–	–	0.0	0.0	0.0	5.9	5.5	–	–	–	–
70.0	90.0	–	–	–	0.0	0.0	2.8	–	–	–	–	–	–
70.0	100.0	–	–	–	–	0.0	5.3	–	–	–	–	–	–
73.0	55.0	–	–	–	–	–	2.5	2.7	–	–	–	–	–
80.0	70.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	–	–	–	–
80.0	90.0	2.3	–	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–

TABLE 4. (cont.)

Chauliodus macouni (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 100.0	2.2	–	2.5	0.0	0.0	0.0	0.0	0.0	–	–	–	–
83.0 55.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0 60.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	–	–	0.0	0.0
85.0 39.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	–	0.0	0.0
85.0 55.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	–	0.0	–
85.0 60.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	–	–	0.0	–
87.0 35.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0 45.0	–	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	–	0.0	0.0
87.0 60.0	0.0	0.0	–	0.0	1.5	0.0	0.0	0.0	0.0	–	2.5	–
90.0 37.0	0.0	0.0	3.0	0.0	–	0.0	5.5	0.0	–	0.0	–	0.0
90.0 50.0	–	–	0.0	–	0.0	0.0	3.3	0.0	–	0.0	–	0.0
90.0 55.0	–	–	0.0	0.0	0.0	0.0	8.7	0.0	–	0.0	–	0.0
90.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	–	0.0	–	0.0
93.0 50.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
93.0 55.0	–	–	–	3.3	–	0.0	–	–	–	–	–	–
93.0 70.0	–	–	–	3.1	–	0.0	–	–	–	–	–	–
93.0 80.0	–	–	–	0.0	–	2.0	–	–	–	–	–	–
97.0 50.0	0.0	0.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	4.8
97.0 70.0	–	–	–	6.0	0.0	3.0	–	–	–	–	–	–
100.0 50.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0 70.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0 80.0	0.0	0.0	0.0	2.7	3.0	0.0	0.0	0.0	–	–	–	0.0
103.0 30.0	–	–	–	–	0.0	0.0	0.0	2.2	–	0.0	–	0.0
103.0 40.0	–	–	–	0.0	0.0	0.0	2.9	0.0	–	0.0	–	0.0
110.0 50.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0 70.0	0.0	0.0	–	1.5	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0 50.0	–	0.0	0.0	0.0	2.6	0.0	0.0	0.0	–	0.0	–	0.0

Idiacanthus antrostomus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 90.0	0.0	–	0.0	0.0	0.0	0.0	2.7	2.3	–	–	–	–
80.0 100.0	4.5	–	0.0	0.0	0.0	2.7	7.4	4.7	–	–	–	–
90.0 90.0	2.5	–	0.0	0.0	0.0	0.0	–	–	–	–	–	–
90.0 139.0	–	–	–	–	2.8	–	–	–	–	–	–	–
93.0 35.0	–	–	–	0.0	0.0	3.3	0.0	0.0	–	–	–	–
93.0 80.0	–	–	–	7.3	–	0.0	–	–	–	–	–	–
97.0 45.0	–	–	–	0.0	0.0	0.0	3.3	–	–	–	–	–
100.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	3.0
100.0 70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	8.4
120.0 45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	5.3

TABLE 4. (cont.)

Aristostomias scintillans

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 100.0	0.0	–	0.0	0.0	0.0	2.7	0.0	0.0	–	–	–	–
80.0 120.0	–	–	–	0.0	7.2	–	–	–	–	–	–	–
80.0 138.0	–	–	–	–	2.6	–	–	–	–	–	–	–
80.0 145.0	–	–	–	3.4	5.4	–	–	–	–	–	–	–
80.0 153.0	–	–	–	–	3.0	–	–	–	–	–	–	–
80.0 160.0	–	–	–	2.6	0.0	–	–	–	–	–	–	–
90.0 145.0	–	–	–	2.5	0.0	–	–	–	–	–	–	–
97.0 90.0	–	–	–	3.4	–	0.0	–	–	–	–	–	–
105.0 80.0	4.6	–	0.0	–	–	–	–	–	–	–	–	–

Bathophilus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 153.0	–	–	–	–	9.0	–	–	–	–	–	–	–
90.0 160.0	–	–	–	0.0	1.9	–	–	–	–	–	–	–

Stomias atriventer

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 90.0	–	–	–	0.0	0.0	–	3.0	0.0	–	–	–	–
63.0 55.0	–	–	–	2.3	0.0	0.0	0.0	–	–	–	–	–
80.0 80.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	–	–	–	–
87.0 35.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
93.0 50.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0 40.0	2.7	0.0	5.7	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0 60.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0 70.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0 80.0	0.0	6.4	3.0	0.0	0.0	0.0	0.0	0.0	–	–	–	0.0
103.0 40.0	–	–	–	2.7	0.0	0.0	0.0	0.0	–	0.0	–	0.0
103.0 45.0	–	–	–	2.5	0.0	0.0	–	–	–	–	–	–
103.0 70.0	–	–	–	2.9	0.0	0.0	–	–	–	–	–	–
103.0 80.0	–	–	–	0.0	0.0	2.8	–	–	–	–	–	–
105.0 40.0	0.0	3.2	0.0	–	–	–	–	–	–	–	–	–
105.0 60.0	0.0	3.1	0.0	–	–	–	–	–	–	–	–	–
105.0 70.0	0.0	–	5.4	–	–	–	–	–	–	–	–	–
105.0 80.0	9.3	–	11.6	–	–	–	–	–	–	–	–	–
107.0 50.0	–	–	–	0.0	3.1	0.0	–	–	–	–	–	–
107.0 65.0	–	–	–	–	–	2.3	–	–	–	–	–	–
107.0 90.0	–	–	–	0.0	3.2	–	–	–	–	–	–	–
110.0 35.0	–	2.6	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0 50.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0 60.0	0.0	0.0	2.6	3.3	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0 80.0	4.7	–	–	0.0	0.0	–	–	–	–	–	–	–
113.0 30.0	–	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0

TABLE 4. (cont.)

Stomias atriventer (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	45.0	–	–	0.0	1.8	3.0	0.0	–	–	–	–	–	–
113.0	50.0	2.8	0.0	0.0	0.0	0.0	3.0	–	–	–	–	–	–
113.0	55.0	–	–	3.2	1.5	0.0	0.0	–	–	–	–	–	–
113.0	60.0	–	2.6	0.0	0.0	0.0	0.0	–	–	–	–	–	–
115.0	30.0	–	–	–	–	–	–	–	–	2.0	–	–	–
117.0	55.0	–	–	0.0	1.5	2.6	0.0	–	–	–	–	–	–
117.0	60.0	–	0.0	0.0	1.5	0.0	0.0	–	–	–	–	–	–
117.0	70.0	–	–	–	1.5	0.0	0.0	–	–	–	–	–	–
120.0	50.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0	70.0	0.0	0.0	–	0.0	0.0	0.0	0.0	5.4	–	0.0	–	0.0
120.0	80.0	0.0	9.4	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.5
120.0	90.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.5
123.0	40.0	–	5.5	0.0	0.0	0.0	2.6	0.0	0.0	–	0.0	–	0.0
123.0	45.0	–	0.0	5.2	0.0	0.0	0.0	0.0	0.0	–	–	–	–
123.0	50.0	–	0.0	3.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
123.0	55.0	–	–	5.3	4.6	0.0	0.0	–	–	–	–	–	–
123.0	60.0	–	–	5.6	0.0	0.0	0.0	–	–	–	–	–	–
127.0	45.0	–	5.5	1.4	0.0	0.0	0.0	0.0	0.0	–	–	–	–
127.0	50.0	–	0.0	4.1	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0	60.0	–	–	5.6	2.8	0.0	0.0	–	–	–	–	–	–
130.0	35.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0	45.0	–	2.8	1.5	0.0	0.0	0.0	0.0	0.0	–	–	–	–
130.0	50.0	–	0.0	2.8	2.7	0.0	2.8	0.0	4.0	–	0.0	–	0.0
130.0	55.0	–	–	0.0	6.6	3.1	0.0	–	–	–	–	–	–
130.0	60.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	–	–	–	0.0
133.0	40.0	0.0	0.0	4.9	0.0	4.8	0.0	2.3	0.0	–	0.0	–	0.0
133.0	45.0	–	–	1.4	8.7	0.0	0.0	–	–	–	–	–	–
133.0	50.0	2.4	–	1.4	0.0	0.0	0.0	–	–	–	–	–	–
133.0	55.0	–	–	0.0	9.1	0.0	–	–	–	–	–	–	–
133.0	60.0	–	–	11.8	0.0	0.0	–	–	–	–	–	–	–
137.0	35.0	–	–	2.4	0.0	0.0	0.0	–	–	–	–	–	–
137.0	45.0	–	–	2.9	4.0	0.0	0.0	–	–	–	–	–	–
137.0	55.0	–	–	2.6	0.0	0.0	–	–	–	–	–	–	–
137.0	60.0	–	–	3.2	0.0	0.0	–	–	–	–	–	–	–

Paralepididae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	60.0	–	–	–	0.0	–	4.0	0.0	0.0	–	–	–	–
80.0	60.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	65.0	–	–	–	–	–	3.4	–	–	–	–	–	–
80.0	70.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	2.9	–	–	–	–
80.0	90.0	0.0	–	0.0	2.8	0.0	0.0	0.0	0.0	–	–	–	–
80.0	100.0	0.0	–	0.0	2.3	0.0	0.0	0.0	9.4	–	–	–	–
80.0	110.0	–	–	–	3.0	0.0	–	–	–	–	–	–	–

TABLE 4. (cont.)

Paralepididae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 120.0	-	-	-	0.0	2.4	-	-	-	-	-	-	-
80.0 130.0	-	-	-	5.6	0.0	-	-	-	-	-	-	-
80.0 153.0	-	-	-	-	3.0	-	-	-	-	-	-	-
80.0 160.0	-	-	-	2.6	0.0	-	-	-	-	-	-	-
83.0 48.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0 55.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0 70.0	-	-	-	3.0	0.0	0.0	-	-	-	-	-	-
83.0 90.0	-	-	-	0.0	2.9	0.0	-	-	-	-	-	-
85.0 40.0	0.0	3.8	0.0	0.0	0.0	0.0	2.6	0.0	0.0	-	0.0	0.0
85.0 55.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	-	0.0	-
87.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	-	0.0	0.0
87.0 50.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	-	-	0.0
87.0 55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.5
87.0 90.0	-	-	-	3.0	0.0	0.0	-	-	-	-	-	-
90.0 45.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
90.0 53.0	3.2	0.0	-	-	-	-	-	-	-	-	-	-
90.0 80.0	0.0	0.0	0.0	0.0	0.0	2.9	-	-	-	-	-	-
90.0 145.0	-	-	-	0.0	3.8	-	-	-	-	-	-	-
90.0 160.0	-	-	-	0.0	1.9	-	-	-	-	-	-	-
93.0 50.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
97.0 40.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
97.0 50.0	3.2	0.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
97.0 70.0	-	-	-	3.0	0.0	3.0	-	-	-	-	-	-
97.0 90.0	-	-	-	3.4	-	2.6	-	-	-	-	-	-
100.0 30.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0 40.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	7.2	-	0.0	-	2.3
100.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	-	8.7	-	0.0
100.0 55.0	-	-	-	0.0	0.0	0.0	-	3.3	-	-	-	-
100.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	-	5.3	-	0.0
100.0 70.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0 80.0	0.0	0.0	3.0	5.4	0.0	0.0	2.4	0.0	-	-	-	0.0
103.0 40.0	-	-	-	2.7	0.0	0.0	0.0	0.0	-	3.4	-	0.0
103.0 50.0	-	-	-	2.7	0.0	0.0	-	-	-	-	-	-
103.0 55.0	-	-	-	0.0	0.0	4.2	-	-	-	-	-	-
103.0 70.0	-	-	-	0.0	0.0	6.1	-	-	-	-	-	-
103.0 80.0	-	-	-	0.0	2.4	8.4	-	-	-	-	-	-
103.0 90.0	-	-	-	-	0.0	4.9	-	-	-	-	-	-
105.0 35.0	4.2	0.0	0.0	-	-	-	-	-	-	-	-	-
105.0 80.0	0.0	-	2.9	-	-	-	-	-	-	-	-	-
107.0 50.0	-	-	-	0.0	6.2	0.0	-	-	-	-	-	-
107.0 55.0	-	-	-	6.7	0.0	8.3	-	-	-	-	-	-
107.0 60.0	-	-	-	2.8	0.0	0.0	-	-	-	-	-	-
110.0 35.0	-	0.0	0.0	0.0	0.0	0.0	0.0	5.1	-	0.0	-	0.0
110.0 40.0	-	0.0	0.0	0.0	0.0	0.0	0.0	3.4	-	0.0	-	0.0
110.0 50.0	5.6	0.0	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0 60.0	0.0	0.0	12.8	0.0	0.0	0.0	2.7	3.5	-	9.6	-	0.0

TABLE 4. (cont.)

Paralepididae (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0	0.0	–	0.0
113.0	55.0	–	–	3.2	0.0	0.0	0.0	–	–	–	–	–	–
113.0	60.0	–	2.6	0.0	0.0	0.0	0.0	–	–	–	–	–	–
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	–	–
117.0	55.0	–	–	0.0	1.5	0.0	0.0	–	–	–	–	–	–
117.0	60.0	–	0.0	0.0	3.0	0.0	0.0	–	–	–	–	–	–
117.0	70.0	–	–	–	5.1	2.5	0.0	–	–	–	–	–	–
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	7.1	–	0.0
120.0	55.0	–	–	0.0	0.0	0.0	2.4	–	–	–	–	–	–
120.0	60.0	0.0	0.0	2.9	2.9	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0	70.0	0.0	3.0	–	2.7	0.0	1.6	0.0	0.0	–	0.0	–	0.0
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.2	–	0.0
123.0	50.0	–	6.1	1.5	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	1.9
133.0	35.0	–	–	0.0	0.0	5.6	0.0	0.0	0.0	–	–	–	–
133.0	40.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	–	0.0	–	0.0
133.0	45.0	–	–	1.4	0.0	2.1	0.0	–	–	–	–	–	–

Scopelarchidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	100.0	0.0	–	0.0	0.0	0.0	0.0	0.0	2.3	–	–	–	–
100.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.7	–	0.0
100.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	2.4
100.0	100.0	–	–	–	–	–	2.7	–	–	–	–	–	–
103.0	35.0	–	–	–	0.0	2.9	0.0	0.0	0.0	–	0.0	–	0.0
103.0	55.0	–	–	–	0.0	0.0	4.2	–	–	–	–	–	–
103.0	70.0	–	–	–	2.9	0.0	0.0	–	–	–	–	–	–
103.0	80.0	–	–	–	0.0	0.0	2.8	–	–	–	–	–	–
103.0	90.0	–	–	–	–	0.0	4.9	–	–	–	–	–	–
107.0	80.0	–	–	–	0.0	5.6	–	–	–	–	–	–	–
107.0	90.0	–	–	–	0.0	3.2	–	–	–	–	–	–	–
110.0	45.0	–	–	–	0.0	0.0	2.9	–	–	–	–	–	–
110.0	50.0	2.8	0.0	0.0	0.0	0.0	5.6	0.0	0.0	–	0.0	–	0.0
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	–	0.0	–	0.0
113.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
130.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	2.4

Myctophidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	–	–	–	10.3	0.0	0.0	0.0	0.0	–	–	–	–
63.0	52.0	–	–	–	0.0	0.0	0.0	0.0	4.3	–	–	–	–
80.0	51.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–

TABLE 4. (cont.)

Myctophidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 70.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0 90.0	2.3	–	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0 110.0	–	–	–	0.0	3.3	–	–	–	–	–	–	–
80.0 160.0	–	–	–	0.0	3.0	–	–	–	–	–	–	–
83.0 90.0	–	–	–	0.0	8.6	0.0	–	–	–	–	–	–
87.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.6	0.0
87.0 60.0	0.0	3.2	–	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–
90.0 35.0	–	–	–	–	12.6	–	–	–	–	–	–	–
90.0 53.0	0.0	2.2	–	–	–	–	–	–	–	–	–	–
90.0 55.0	–	–	0.0	0.0	0.0	0.0	0.0	6.4	–	0.0	–	0.0
90.0 80.0	0.0	0.0	12.1	0.0	0.0	0.0	–	–	–	–	–	–
90.0 120.0	–	–	–	0.0	2.4	–	–	–	–	–	–	–
90.0 139.0	–	–	–	–	8.4	–	–	–	–	–	–	–
90.0 145.0	–	–	–	0.0	7.5	–	–	–	–	–	–	–
90.0 152.5	–	–	–	–	9.8	–	–	–	–	–	–	–
93.0 70.0	–	–	–	3.1	–	0.0	–	–	–	–	–	–
97.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	–	0.0	–	0.0
97.0 50.0	0.0	0.0	–	0.0	0.0	0.0	6.2	0.0	–	0.0	–	0.0
100.0 90.0	0.0	–	–	0.0	3.0	0.0	–	–	–	–	–	–
100.0 100.0	–	–	–	–	–	2.7	–	–	–	–	–	–
103.0 45.0	–	–	–	2.5	0.0	0.0	–	–	–	–	–	–
103.0 80.0	–	–	–	0.0	0.0	2.8	–	–	–	–	–	–
105.0 50.0	0.0	0.0	5.5	–	–	–	–	–	–	–	–	–
105.0 80.0	4.6	–	0.0	–	–	–	–	–	–	–	–	–
107.0 50.0	–	–	–	0.0	3.1	0.0	–	–	–	–	–	–
107.0 70.0	–	–	–	0.0	0.0	3.0	–	–	–	–	–	–
107.0 90.0	–	–	–	0.0	3.2	–	–	–	–	–	–	–
110.0 40.0	–	2.8	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0 50.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	–	0.0	–	0.0
110.0 70.0	0.0	–	0.0	0.0	2.8	0.0	–	–	–	–	–	–
110.0 80.0	2.3	–	–	0.0	0.0	–	–	–	–	–	–	–
110.0 90.0	–	–	–	0.0	2.6	–	–	–	–	–	–	–
117.0 26.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	–	0.0
117.0 55.0	–	–	0.0	1.5	0.0	0.0	–	–	–	–	–	–
117.0 60.0	–	6.5	0.0	0.0	0.0	0.0	–	–	–	–	–	–
117.0 70.0	–	–	–	1.5	0.0	0.0	–	–	–	–	–	–
120.0 55.0	–	–	0.0	0.0	0.0	2.4	–	–	–	–	–	–
120.0 70.0	0.0	0.0	–	1.5	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0 90.0	–	–	–	1.3	0.0	0.0	0.0	0.0	–	0.0	–	0.0
123.0 55.0	–	–	0.0	4.6	0.0	0.0	–	–	–	–	–	–
123.0 60.0	–	–	1.4	2.8	0.0	0.0	–	–	–	–	–	–
127.0 34.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0 45.0	–	0.0	1.4	25.0	0.0	0.0	0.0	0.0	–	–	–	–
127.0 50.0	–	0.0	1.4	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0 60.0	3.1	0.0	1.7	0.0	0.0	0.0	0.0	0.0	–	–	–	0.0
133.0 25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.2	–	0.0

TABLE 4. (cont.)

Myctophidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0 30.0	0.0	0.0	1.3	0.0	0.0	5.5	0.0	0.0	-	9.3	-	0.0
133.0 45.0	-	-	0.0	2.9	0.0	0.0	-	-	-	-	-	-
133.0 50.0	0.0	-	1.4	0.0	0.0	0.0	-	-	-	-	-	-
133.0 55.0	-	-	0.0	9.1	0.0	-	-	-	-	-	-	-
147.0 30.0	9.5	-	-	-	-	-	-	-	-	-	-	-

Ceratoscopelus townsendi

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 100.0	0.0	-	0.0	11.6	7.9	0.0	0.0	0.0	-	-	-	-
80.0 120.0	-	-	-	9.8	21.6	-	-	-	-	-	-	-
80.0 130.0	-	-	-	0.0	18.1	-	-	-	-	-	-	-
80.0 138.0	-	-	-	-	10.5	-	-	-	-	-	-	-
80.0 145.0	-	-	-	82.8	10.8	-	-	-	-	-	-	-
80.0 153.0	-	-	-	-	9.0	-	-	-	-	-	-	-
80.0 160.0	-	-	-	13.2	45.6	-	-	-	-	-	-	-
83.0 70.0	-	-	-	0.0	0.0	6.4	-	-	-	-	-	-
83.0 90.0	-	-	-	0.0	0.0	3.1	-	-	-	-	-	-
90.0 120.0	-	-	-	3.1	4.9	-	-	-	-	-	-	-
90.0 130.0	-	-	-	3.4	9.2	-	-	-	-	-	-	-
90.0 145.0	-	-	-	17.8	7.5	-	-	-	-	-	-	-
90.0 152.5	-	-	-	-	2.5	-	-	-	-	-	-	-
90.0 160.0	-	-	-	51.8	24.8	-	-	-	-	-	-	-
93.0 35.0	-	-	-	0.0	0.0	0.0	2.5	0.0	-	-	-	-
100.0 70.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0 90.0	45.9	-	-	0.0	0.0	0.0	-	-	-	-	-	-
103.0 70.0	-	-	-	2.9	0.0	0.0	-	-	-	-	-	-
103.0 80.0	-	-	-	2.6	0.0	0.0	-	-	-	-	-	-
103.0 90.0	-	-	-	-	3.0	0.0	-	-	-	-	-	-
107.0 50.0	-	-	-	0.0	6.2	0.0	-	-	-	-	-	-
107.0 70.0	-	-	-	0.0	0.0	8.9	-	-	-	-	-	-
107.0 90.0	-	-	-	0.0	9.5	-	-	-	-	-	-	-
127.0 45.0	-	0.0	0.0	0.0	0.0	2.5	0.0	0.0	-	-	-	-
130.0 60.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	-	-	-	0.0

Diaphus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 70.0	-	-	-	0.0	0.0	-	5.5	0.0	-	-	-	-
60.0 80.0	-	-	-	0.0	0.0	-	12.4	0.0	-	-	-	-
60.0 90.0	-	-	-	0.0	0.0	-	5.9	0.0	-	-	-	-
60.0 100.0	-	-	-	-	5.1	-	21.1	0.0	-	-	-	-
63.0 55.0	-	-	-	0.0	0.0	0.0	6.2	-	-	-	-	-
67.0 55.0	-	-	-	0.0	-	0.0	8.2	0.0	-	-	-	-

TABLE 4. (cont.)

Diaphus spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0	65.0	–	–	–	–	–	0.0	5.9	5.7	–	–	–	–
70.0	70.0	–	–	–	0.0	0.0	0.0	11.8	16.4	–	–	–	–
73.0	60.0	–	–	–	0.0	–	0.0	0.0	8.2	–	–	–	–
80.0	55.0	–	0.0	0.0	0.0	0.0	0.0	0.0	6.3	–	–	–	–
80.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	–	–	–	–
80.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	–	–	–	–
80.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	–	–	–	–
80.0	90.0	0.0	–	0.0	0.0	0.0	0.0	5.3	14.1	–	–	–	–
80.0	100.0	0.0	–	0.0	0.0	1.3	0.0	7.4	49.1	–	–	–	–
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0
83.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	0.0	–	–	0.0	0.0
83.0	80.0	–	–	–	0.0	6.6	0.0	–	–	–	–	–	–
85.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	–	0.0	0.0
85.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	17.3	0.0	–	–	0.0	–
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	–	0.0	0.0
87.0	45.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	–	0.0	0.0
87.0	60.0	0.0	0.0	–	0.0	0.0	0.0	0.0	3.6	0.0	–	0.0	–
87.0	80.0	–	–	–	0.0	2.3	–	–	–	–	–	–	–
90.0	55.0	–	–	0.0	0.0	0.0	0.0	0.0	0.0	–	3.2	–	0.0
90.0	90.0	0.0	–	0.0	0.0	2.5	0.0	–	–	–	–	–	–
90.0	110.0	–	–	–	0.0	2.9	–	–	–	–	–	–	–
90.0	120.0	–	–	–	0.0	4.9	–	–	–	–	–	–	–
90.0	145.0	–	–	–	0.0	7.5	–	–	–	–	–	–	–
90.0	160.0	–	–	–	0.0	1.9	–	–	–	–	–	–	–
93.0	27.0	0.0	0.0	–	0.0	0.0	0.0	2.1	0.0	–	0.0	–	0.0
93.0	35.0	–	–	–	0.0	0.0	0.0	10.1	0.0	–	–	–	–
93.0	40.0	0.0	0.0	–	0.0	0.0	0.0	17.3	0.0	–	0.0	–	0.0
93.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	–	0.0	–	0.0
97.0	37.5	–	–	–	–	–	–	–	10.2	–	–	–	–
97.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	25.5	0.0	–	0.0	–	0.0
97.0	45.0	–	–	–	0.0	0.0	0.0	3.3	–	–	–	–	–
100.0	35.0	–	–	–	0.0	0.0	0.0	0.0	10.7	–	–	–	–
100.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	14.4	–	0.0	–	0.0
100.0	45.0	–	–	–	0.0	0.0	0.0	3.3	–	–	–	–	–
100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3	0.0	–	0.0	–	0.0
100.0	55.0	–	–	–	0.0	0.0	0.0	–	3.3	–	–	–	–
100.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	43.1	0.0	–	0.0	–	0.0
100.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	0.0	–	0.0	–	0.0
100.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	–	–	–	0.0
103.0	40.0	–	–	–	0.0	0.0	0.0	0.0	2.8	–	0.0	–	0.0
103.0	55.0	–	–	–	0.0	0.0	8.4	–	–	–	–	–	–
103.0	60.0	–	–	–	0.0	0.0	5.2	–	–	–	–	–	–
107.0	35.0	–	–	–	0.0	0.0	0.0	0.0	13.6	–	0.0	–	0.0
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.9	–	0.0
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	–	6.4	–	0.0
113.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	–	0.0

TABLE 4. (cont.)

Diaphus spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	40.0	-	0.0	0.0	0.0	0.0	0.0	4.0	0.0	-	0.0	-	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	-	0.0
123.0	50.0	-	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0

Lampanyctus spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	65.0	-	-	-	-	0.0	3.0	-	-	-	-	-	-
60.0	80.0	-	-	-	0.0	0.0	-	6.2	0.0	-	-	-	-
60.0	100.0	-	-	-	-	0.0	-	2.3	0.0	-	-	-	-
63.0	65.0	-	-	-	-	11.4	2.7	-	-	-	-	-	-
67.0	60.0	-	-	-	-	-	5.9	0.0	-	-	-	-	-
67.0	65.0	-	-	-	-	-	5.6	0.0	0.0	-	-	-	-
70.0	55.0	-	-	-	3.0	-	0.0	0.0	0.0	-	-	-	-
70.0	60.0	-	-	-	0.0	-	10.9	0.0	0.0	-	-	-	-
70.0	70.0	-	-	-	0.0	5.3	0.0	0.0	0.0	-	-	-	-
70.0	80.0	-	-	-	-	8.1	2.9	0.0	0.0	-	-	-	-
70.0	90.0	-	-	-	6.2	0.0	5.7	-	-	-	-	-	-
70.0	100.0	-	-	-	-	2.1	0.0	-	-	-	-	-	-
73.0	55.0	-	-	-	-	-	2.5	0.0	-	-	-	-	-
73.0	60.0	-	-	-	0.0	-	8.0	0.0	0.0	-	-	-	-
80.0	60.0	0.0	0.0	4.6	0.0	3.5	0.0	0.0	0.0	-	-	-	-
80.0	70.0	2.8	15.1	3.6	0.0	6.3	0.0	0.0	0.0	-	-	-	-
80.0	80.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	-	-	-
80.0	90.0	4.5	-	11.0	2.8	0.0	0.0	0.0	2.3	-	-	-	-
80.0	100.0	2.2	-	2.5	7.0	2.6	18.6	11.1	18.7	-	-	-	-
80.0	110.0	-	-	-	0.0	6.6	-	-	-	-	-	-	-
80.0	120.0	-	-	-	7.4	9.6	-	-	-	-	-	-	-
80.0	130.0	-	-	-	0.0	12.1	-	-	-	-	-	-	-
80.0	138.0	-	-	-	-	2.6	-	-	-	-	-	-	-
80.0	145.0	-	-	-	37.2	24.4	-	-	-	-	-	-	-
80.0	153.0	-	-	-	-	9.0	-	-	-	-	-	-	-
80.0	160.0	-	-	-	7.9	24.3	-	-	-	-	-	-	-
83.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
83.0	51.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0
83.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	-	-	0.0	0.0
83.0	70.0	-	-	-	3.0	0.0	12.8	-	-	-	-	-	-
83.0	80.0	-	-	-	0.0	3.3	6.1	-	-	-	-	-	-
83.0	90.0	-	-	-	5.8	5.7	3.1	-	-	-	-	-	-
85.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	0.0
85.0	40.0	2.9	0.0	0.0	0.0	0.0	11.5	2.6	0.0	0.0	-	6.3	0.0
85.0	55.0	0.0	7.8	0.0	0.0	4.3	0.0	0.0	0.0	0.0	-	0.0	-
85.0	60.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	2.6	-	-	0.0	-
87.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	-	3.6	0.0

TABLE 4. (cont.)

Lampanyctus spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	-	0.0	5.0
87.0	50.0	-	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0
87.0	60.0	0.0	3.2	-	0.0	2.9	3.5	0.0	0.0	0.0	-	0.0	-
87.0	65.0	-	-	-	-	-	14.1	-	-	-	-	-	-
87.0	70.0	-	-	-	5.1	4.0	0.0	-	-	-	-	-	-
87.0	80.0	-	-	-	0.0	6.8	-	-	-	-	-	-	-
87.0	90.0	-	-	-	3.0	2.6	8.4	-	-	-	-	-	-
90.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	-	2.3
90.0	37.0	0.0	0.0	0.0	3.6	-	0.0	0.0	0.0	-	5.9	-	0.0
90.0	45.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	-	2.9	-	0.0
90.0	53.0	0.0	2.2	-	-	-	-	-	-	-	-	-	-
90.0	55.0	-	-	0.0	0.0	0.0	0.0	0.0	0.0	-	3.2	-	0.0
90.0	60.0	0.0	0.0	3.8	0.0	11.8	0.0	0.0	0.0	-	0.0	-	5.9
90.0	70.0	0.0	0.0	0.0	0.0	9.4	-	0.0	0.0	-	0.0	-	-
90.0	80.0	0.0	3.3	0.0	0.0	0.0	2.9	-	-	-	-	-	-
90.0	90.0	0.0	-	3.2	0.0	0.0	0.0	-	-	-	-	-	-
90.0	100.0	-	-	-	0.0	2.8	-	-	-	-	-	-	-
90.0	110.0	-	-	-	3.6	0.0	-	-	-	-	-	-	-
90.0	120.0	-	-	-	9.2	36.6	-	-	-	-	-	-	-
90.0	130.0	-	-	-	0.0	6.1	-	-	-	-	-	-	-
90.0	139.0	-	-	-	-	2.8	-	-	-	-	-	-	-
90.0	145.0	-	-	-	12.7	7.5	-	-	-	-	-	-	-
90.0	152.5	-	-	-	-	7.4	-	-	-	-	-	-	-
90.0	160.0	-	-	-	28.5	22.9	-	-	-	-	-	-	-
93.0	27.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	-	3.4	-	0.0
93.0	30.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	-	0.0	-	0.0
93.0	35.0	-	-	-	6.0	0.0	0.0	7.6	10.9	-	-	-	-
93.0	40.0	0.0	0.0	-	0.0	0.0	0.0	2.5	0.0	-	0.0	-	0.0
93.0	50.0	10.4	0.0	0.0	0.0	5.3	0.0	0.0	0.0	-	0.0	-	0.0
93.0	55.0	-	-	-	6.5	-	0.0	-	-	-	-	-	-
93.0	60.0	-	0.0	-	2.5	0.0	12.2	-	-	-	-	-	-
93.0	65.0	-	-	-	-	-	32.2	-	-	-	-	-	-
93.0	80.0	-	-	-	0.0	-	24.5	-	-	-	-	-	-
93.0	90.0	-	-	-	13.3	-	0.0	-	-	-	-	-	-
97.0	30.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	2.5	-	0.0	-	0.0
97.0	32.0	0.0	8.6	-	-	-	-	-	-	-	-	-	-
97.0	35.0	-	-	0.0	0.0	0.0	3.5	6.0	0.0	-	0.0	-	0.0
97.0	40.0	0.0	14.9	3.1	0.0	0.0	3.2	2.8	4.6	-	3.0	-	2.6
97.0	45.0	-	-	-	0.0	6.6	0.0	0.0	-	-	-	-	-
97.0	50.0	6.4	0.0	-	0.0	0.0	0.0	0.0	0.0	-	2.8	-	0.0
97.0	60.0	0.0	0.0	-	0.0	0.0	22.5	-	-	-	-	-	-
97.0	65.0	-	-	-	-	-	25.5	-	-	-	-	-	-
97.0	70.0	-	-	-	20.9	8.5	3.0	-	-	-	-	-	-
97.0	80.0	-	-	-	3.2	-	0.0	-	-	-	-	-	-
97.0	90.0	-	-	-	3.4	-	13.2	-	-	-	-	-	-
100.0	29.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Lampanyctus spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	30.0	0.0	2.2	0.0	0.0	0.0	0.0	2.9	0.0	–	0.0	–	2.7
100.0	35.0	–	–	–	0.0	2.5	0.0	0.0	0.0	–	–	–	–
100.0	40.0	0.0	3.2	11.4	10.3	0.0	0.0	0.0	7.2	–	0.0	–	0.0
100.0	45.0	–	–	–	0.0	6.3	0.0	3.3	–	–	–	–	–
100.0	50.0	0.0	4.8	2.8	0.0	0.0	0.0	0.0	0.0	–	5.8	–	0.0
100.0	55.0	–	–	–	0.0	0.0	9.2	–	0.0	–	–	–	–
100.0	60.0	0.0	13.1	0.0	0.0	0.0	0.0	12.3	3.6	–	2.7	–	3.0
100.0	70.0	7.1	6.2	8.7	11.2	6.4	0.0	0.0	3.3	–	0.0	–	5.6
100.0	80.0	3.0	22.5	15.0	0.0	0.0	0.0	0.0	0.0	–	–	–	4.9
100.0	90.0	9.2	–	–	5.5	0.0	0.0	–	–	–	–	–	–
100.0	100.0	–	–	–	–	–	2.7	–	–	–	–	–	–
103.0	30.0	–	–	–	–	0.0	0.0	2.1	2.2	–	0.0	–	0.0
103.0	35.0	–	–	–	11.2	0.0	0.0	0.0	13.3	–	0.0	–	0.0
103.0	40.0	–	–	–	2.7	0.0	0.0	0.0	0.0	–	0.0	–	0.0
103.0	45.0	–	–	–	0.0	2.6	0.0	–	–	–	–	–	–
103.0	50.0	–	–	–	8.1	34.4	3.1	–	–	–	–	–	–
103.0	55.0	–	–	–	6.1	0.0	0.0	–	–	–	–	–	–
103.0	60.0	–	–	–	9.3	0.0	5.2	–	–	–	–	–	–
103.0	70.0	–	–	–	11.6	2.8	12.2	–	–	–	–	–	–
103.0	80.0	–	–	–	5.3	12.2	0.0	–	–	–	–	–	–
103.0	90.0	–	–	–	–	6.0	0.0	–	–	–	–	–	–
105.0	32.0	2.1	4.8	0.0	–	–	–	–	–	–	–	–	–
105.0	35.0	6.4	0.0	4.3	–	–	–	–	–	–	–	–	–
105.0	40.0	0.0	15.8	15.8	–	–	–	–	–	–	–	–	–
105.0	50.0	3.4	11.4	27.7	–	–	–	–	–	–	–	–	–
105.0	60.0	13.1	9.2	0.0	–	–	–	–	–	–	–	–	–
105.0	70.0	7.6	–	21.7	–	–	–	–	–	–	–	–	–
105.0	80.0	0.0	–	8.7	–	–	–	–	–	–	–	–	–
107.0	35.0	–	–	–	0.0	0.0	0.0	2.8	0.0	–	0.0	–	12.3
107.0	40.0	–	–	–	3.1	0.0	0.0	0.0	11.3	–	0.0	–	2.4
107.0	45.0	–	–	–	3.0	0.0	9.5	–	–	–	–	–	–
107.0	50.0	–	–	–	15.4	15.5	10.1	–	–	–	–	–	–
107.0	55.0	–	–	–	16.9	6.8	11.1	–	–	–	–	–	–
107.0	60.0	–	–	–	16.7	0.0	4.5	–	–	–	–	–	–
107.0	65.0	–	–	–	–	–	2.3	–	–	–	–	–	–
107.0	70.0	–	–	–	45.3	3.0	14.8	–	–	–	–	–	–
107.0	80.0	–	–	–	42.0	0.0	–	–	–	–	–	–	–
107.0	90.0	–	–	–	0.0	3.2	–	–	–	–	–	–	–
110.0	33.0	–	3.0	0.0	0.0	–	0.0	0.0	0.0	–	0.0	–	0.0
110.0	35.0	–	7.7	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	40.0	–	8.3	5.6	4.2	0.0	6.2	0.0	3.4	–	0.0	–	0.0
110.0	45.0	–	–	–	0.0	2.6	2.9	–	–	–	–	–	–
110.0	50.0	8.5	18.7	8.3	6.4	11.1	2.8	11.8	0.0	–	3.9	–	2.8
110.0	55.0	–	–	–	3.0	20.8	2.9	–	–	–	–	–	–
110.0	60.0	0.0	42.4	59.1	6.6	0.0	0.0	5.3	0.0	–	0.0	–	0.0
110.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–

TABLE 4. (cont.)

Lampanyctus spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	70.0	0.0	-	11.2	12.8	2.8	2.7	-	-	-	-	-	-
110.0	80.0	4.7	-	-	0.0	9.6	-	-	-	-	-	-	-
110.0	90.0	-	-	-	3.1	0.0	-	-	-	-	-	-	-
113.0	30.0	-	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
113.0	35.0	-	8.0	2.7	16.1	0.0	0.0	0.0	0.0	0.0	3.4	-	0.0
113.0	40.0	-	5.9	7.2	20.3	12.5	0.0	2.0	0.0	-	0.0	-	0.0
113.0	45.0	-	-	7.6	0.0	6.0	2.6	-	-	-	-	-	-
113.0	50.0	0.0	9.9	0.0	3.0	18.6	3.0	-	-	-	-	-	-
113.0	55.0	-	-	3.2	7.3	0.0	2.8	-	-	-	-	-	-
113.0	60.0	-	2.6	0.0	3.0	7.1	0.0	-	-	-	-	-	-
113.0	70.0	-	-	-	1.4	0.0	18.8	-	-	-	-	-	-
117.0	40.0	6.3	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	3.2	-	-
117.0	45.0	-	-	0.0	2.7	0.0	4.2	-	-	-	-	-	-
117.0	50.0	0.0	0.0	12.6	1.6	0.0	0.0	-	-	-	-	-	-
117.0	55.0	-	-	15.0	1.5	0.0	0.0	-	-	-	-	-	-
117.0	60.0	-	0.0	11.8	34.7	0.0	5.8	-	-	-	-	-	-
117.0	65.0	-	-	-	-	-	2.0	-	-	-	-	-	-
117.0	70.0	-	-	-	15.8	2.5	2.8	-	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	0.9	0.0	0.0	-	0.0	0.0	0.0	-	0.0
120.0	30.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
120.0	43.0	-	-	-	-	-	-	-	-	2.4	-	-	-
120.0	50.0	0.0	2.9	0.0	6.6	0.0	0.0	2.4	0.0	-	0.0	-	0.0
120.0	55.0	-	-	2.9	5.2	2.7	4.8	-	-	-	-	-	-
120.0	60.0	0.0	8.1	2.9	0.0	5.5	0.0	0.0	0.0	-	4.0	-	0.0
120.0	65.0	-	-	-	-	-	7.7	-	-	-	-	-	-
120.0	70.0	0.0	8.9	-	7.4	0.0	1.6	0.0	0.0	-	0.0	-	2.4
120.0	80.0	8.0	0.0	-	5.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	90.0	-	-	-	0.0	0.0	0.0	2.8	2.8	-	0.0	-	5.1
123.0	40.0	-	2.7	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	45.0	-	0.0	1.3	2.5	4.8	0.0	0.0	0.0	-	-	-	-
123.0	50.0	-	3.0	1.4	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0
123.0	55.0	-	-	2.9	0.0	2.8	0.0	-	-	-	-	-	-
123.0	60.0	-	-	4.1	0.0	0.0	0.0	-	-	-	-	-	-
127.0	34.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	40.0	-	5.6	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	50.0	-	4.0	0.0	4.5	2.1	0.0	0.0	0.0	-	0.0	-	0.0
127.0	60.0	-	-	4.2	11.0	0.0	0.0	-	-	-	-	-	-
130.0	30.0	-	2.7	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0
130.0	40.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	45.0	-	2.8	0.0	0.0	0.0	2.8	0.0	0.0	-	-	-	-
130.0	50.0	-	0.0	0.0	0.0	7.9	0.0	0.0	0.0	-	0.0	-	0.0
130.0	55.0	-	-	4.7	4.4	6.2	2.5	-	-	-	-	-	-
130.0	60.0	0.0	0.0	26.5	2.7	2.6	2.2	0.0	0.0	-	-	-	2.4
133.0	25.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	30.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	2.2	-	0.0	-	0.0
133.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.7

TABLE 4. (cont.)

Lampanyctus spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0 45.0	–	–	0.0	5.8	2.1	0.0	–	–	–	–	–	–
133.0 50.0	0.0	–	1.4	0.0	5.4	0.0	–	–	–	–	–	–
133.0 55.0	–	–	0.0	24.3	7.9	–	–	–	–	–	–	–
133.0 60.0	–	–	8.9	0.0	0.0	–	–	–	–	–	–	2.0
137.0 30.0	0.0	–	0.0	0.0	0.0	0.0	15.9	0.0	–	–	–	–
137.0 45.0	–	–	2.4	0.0	0.0	0.0	–	–	–	–	–	–
137.0 50.0	0.0	–	1.3	0.0	0.0	0.0	–	–	–	–	–	–
137.0 55.0	–	–	2.6	2.6	0.0	–	–	–	–	–	–	–
137.0 60.0	–	–	6.5	14.5	0.0	–	–	–	–	–	–	–
140.0 40.0	2.7	–	–	–	–	–	–	–	–	–	–	–
147.0 20.0	2.0	–	–	–	–	–	–	–	–	–	–	–
147.0 30.0	9.5	–	–	–	–	–	–	–	–	–	–	–

Notolychnus valdiviae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 145.0	–	–	–	11.8	0.0	–	–	–	–	–	–	–
90.0 145.0	–	–	–	2.5	0.0	–	–	–	–	–	–	–
107.0 80.0	–	–	–	2.8	0.0	–	–	–	–	–	–	–
113.0 60.0	–	0.0	10.1	0.0	0.0	0.0	–	–	–	–	–	–

Notoscopelus resplendens

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 138.0	–	–	–	–	2.6	–	–	–	–	–	–	–
80.0 145.0	–	–	–	0.0	8.1	–	–	–	–	–	–	–
80.0 160.0	–	–	–	0.0	3.0	–	–	–	–	–	–	–
90.0 130.0	–	–	–	0.0	6.1	–	–	–	–	–	–	–
90.0 139.0	–	–	–	–	2.8	–	–	–	–	–	–	–
90.0 160.0	–	–	–	0.0	1.9	–	–	–	–	–	–	–
103.0 80.0	–	–	–	0.0	2.4	0.0	–	–	–	–	–	–
107.0 50.0	–	–	–	0.0	3.1	0.0	–	–	–	–	–	–
107.0 70.0	–	–	–	0.0	3.0	0.0	–	–	–	–	–	–
107.0 80.0	–	–	–	0.0	2.8	–	–	–	–	–	–	–

Stenobrachius leucopsarus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 55.0	–	–	–	0.0	0.0	2.7	0.0	0.0	–	–	–	–
60.0 60.0	–	–	–	11.2	10.6	28.0	0.0	0.0	–	–	–	–
60.0 65.0	–	–	–	–	0.0	5.9	–	–	–	–	–	–
60.0 70.0	–	–	–	16.5	21.8	–	16.4	0.0	–	–	–	–
60.0 80.0	–	–	–	0.0	46.4	–	6.2	0.0	–	–	–	–

TABLE 4. (cont.)

Stenobrachius leucopsarus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	90.0	-	-	-	0.0	12.8	-	0.0	0.0	-	-	-	-
60.0	100.0	-	-	-	-	0.0	-	2.3	0.0	-	-	-	-
63.0	52.0	-	-	-	0.0	2.4	0.0	0.0	0.0	-	-	-	-
63.0	55.0	-	-	-	4.5	21.9	2.9	0.0	-	-	-	-	-
63.0	60.0	-	-	-	-	-	11.6	-	-	-	-	-	-
63.0	65.0	-	-	-	-	22.7	18.9	-	-	-	-	-	-
67.0	55.0	-	-	-	4.2	-	5.2	4.1	0.0	-	-	-	-
67.0	60.0	-	-	-	-	-	53.5	0.0	-	-	-	-	-
67.0	65.0	-	-	-	-	-	56.4	0.0	0.0	-	-	-	-
70.0	51.0	-	-	-	14.3	2.8	0.0	0.0	-	-	-	-	-
70.0	60.0	-	-	-	0.0	-	54.6	5.6	0.0	-	-	-	-
70.0	65.0	-	-	-	-	0.0	6.2	-	-	-	-	-	-
70.0	70.0	-	-	-	15.1	15.8	10.3	11.8	0.0	-	-	-	-
70.0	80.0	-	-	-	-	8.1	5.8	28.1	0.0	-	-	-	-
70.0	90.0	-	-	-	181.0	5.3	0.0	-	-	-	-	-	-
70.0	100.0	-	-	-	-	2.1	0.0	-	-	-	-	-	-
73.0	50.0	-	-	-	4.4	-	6.9	0.0	0.0	-	-	-	-
73.0	55.0	-	-	-	-	-	17.6	0.0	-	-	-	-	-
73.0	60.0	-	-	-	40.3	-	8.0	0.0	0.0	-	-	-	-
77.0	50.0	-	-	-	27.0	0.0	0.0	0.0	0.0	-	-	-	-
77.0	55.0	-	-	-	12.8	13.4	0.0	0.0	0.0	-	-	-	-
77.0	60.0	-	-	-	-	3.1	0.0	0.0	-	-	-	-	-
77.0	65.0	-	-	-	0.0	-	20.4	0.0	0.0	-	-	-	-
80.0	51.0	35.3	1.7	5.0	52.0	0.0	0.0	0.0	0.0	-	-	-	-
80.0	55.0	-	10.0	71.5	193.9	9.8	11.4	0.0	0.0	-	-	-	-
80.0	60.0	85.4	139.2	324.8	104.2	10.4	5.3	0.0	0.0	-	-	-	-
80.0	70.0	56.6	187.9	61.7	2.8	0.0	8.0	0.0	0.0	-	-	-	-
80.0	80.0	9.7	7.9	0.0	16.5	18.4	0.0	0.0	0.0	-	-	-	-
80.0	90.0	0.0	-	5.5	5.5	0.0	0.0	0.0	0.0	-	-	-	-
80.0	100.0	4.5	-	19.7	0.0	0.0	0.0	0.0	11.7	-	-	-	-
81.8	46.0	-	-	-	-	-	-	-	-	0.0	-	0.0	9.7
82.3	47.0	-	-	-	-	-	-	-	-	0.0	0.0	0.0	9.0
83.0	40.0	-	-	-	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	43.0	4.3	85.5	47.2	0.0	4.9	6.5	0.0	0.0	0.0	0.0	0.0	13.6
83.0	48.0	1.4	5.4	78.3	24.5	53.1	0.0	0.0	0.0	0.0	0.0	0.0	23.2
83.0	51.0	112.8	12.2	59.6	34.3	13.3	0.0	0.0	0.0	0.0	0.0	0.0	18.5
83.0	55.0	56.4	20.5	91.0	153.6	14.8	0.0	0.0	0.0	0.0	0.0	22.7	8.9
83.0	60.0	33.5	13.2	323.8	228.8	4.3	0.0	0.0	0.0	-	-	2.4	2.3
83.0	65.0	-	-	-	-	-	7.7	-	-	-	-	-	-
83.0	70.0	-	-	-	41.9	2.4	12.8	-	-	-	-	-	-
83.0	80.0	-	-	-	2.7	3.3	6.1	-	-	-	-	-	-
83.0	90.0	-	-	-	52.4	0.0	0.0	-	-	-	-	-	-
85.0	39.0	137.2	518.4	116.1	28.0	6.1	49.6	0.0	0.0	0.0	-	0.0	26.2
85.0	40.0	88.3	174.3	32.8	222.2	8.8	57.6	0.0	0.0	0.0	-	0.0	24.0
85.0	45.0	112.6	109.2	59.2	110.4	112.6	19.8	0.0	0.0	0.0	-	0.0	2.5
85.0	50.0	100.2	181.2	8.7	45.2	23.5	15.1	0.0	0.0	0.0	-	0.0	0.0

TABLE 4. (cont.)

Stenobrachius leucopsarus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
85.0	55.0	84.5	151.7	30.4	28.9	17.1	0.0	0.0	0.0	0.0	–	0.0	–
85.0	60.0	6.3	664.0	225.0	12.4	48.6	10.0	0.0	0.0	–	–	0.0	–
87.0	35.0	35.5	47.0	111.7	2.9	54.1	0.0	0.0	0.0	0.0	–	3.6	19.7
87.0	40.0	60.1	189.4	62.3	54.7	0.0	0.0	0.0	0.0	0.0	–	2.6	40.3
87.0	45.0	–	100.1	59.6	47.7	23.1	0.0	0.0	0.0	0.0	–	0.0	20.2
87.0	50.0	–	100.0	41.4	10.4	8.1	0.0	0.0	0.0	0.0	–	–	16.7
87.0	55.0	27.1	12.0	0.0	31.4	15.3	0.0	0.0	0.0	0.0	–	0.0	12.6
87.0	60.0	6.2	35.5	–	7.6	18.9	10.4	0.0	0.0	0.0	–	0.0	–
87.0	70.0	–	–	–	10.3	6.0	0.0	–	–	–	–	–	–
87.0	80.0	–	–	–	2.7	9.1	–	–	–	–	–	–	–
87.0	90.0	–	–	–	17.8	0.0	0.0	–	–	–	–	–	–
90.0	28.0	82.0	78.7	406.9	394.8	10.7	46.4	0.0	–	–	0.0	–	6.6
90.0	30.0	29.9	44.6	130.9	87.5	9.7	20.0	0.0	0.0	–	0.0	–	11.6
90.0	35.0	–	–	–	–	100.8	–	–	–	–	–	–	–
90.0	37.0	12.3	98.6	59.0	51.6	–	11.1	0.0	0.0	–	0.0	–	5.3
90.0	41.0	–	–	–	–	193.6	–	–	–	–	–	–	–
90.0	45.0	25.6	235.2	44.1	2.8	84.5	12.6	0.0	0.0	–	0.0	–	0.0
90.0	50.0	–	–	79.8	–	23.2	0.0	0.0	0.0	–	0.0	–	0.0
90.0	53.0	12.7	21.7	–	–	–	–	–	–	–	–	–	–
90.0	55.0	–	–	64.6	16.4	27.1	12.6	0.0	0.0	–	0.0	–	0.0
90.0	60.0	14.0	17.8	53.2	23.6	5.9	39.0	0.0	0.0	–	0.0	–	0.0
90.0	65.0	–	–	–	–	–	27.4	–	–	–	–	–	–
90.0	70.0	0.0	0.0	54.1	173.3	5.6	–	0.0	0.0	–	0.0	–	–
90.0	80.0	3.7	23.1	24.2	22.1	15.0	0.0	–	–	–	–	–	–
90.0	90.0	0.0	–	0.0	8.5	0.0	0.0	–	–	–	–	–	–
90.0	100.0	–	–	–	0.0	2.8	–	–	–	–	–	–	–
90.0	110.0	–	–	–	9.1	0.0	–	–	–	–	–	–	–
90.0	120.0	–	–	–	3.1	12.2	–	–	–	–	–	–	–
93.0	27.0	29.3	40.1	–	0.0	4.6	5.6	0.0	0.0	–	0.0	–	0.0
93.0	30.0	13.9	36.8	68.3	212.0	34.2	5.3	0.0	0.0	–	0.0	–	10.1
93.0	35.0	–	–	–	6.0	83.6	19.8	0.0	0.0	–	–	–	–
93.0	40.0	11.0	24.0	–	5.8	2.2	0.0	0.0	0.0	–	0.0	–	8.8
93.0	45.0	–	–	–	25.1	4.3	0.0	0.0	–	–	–	–	–
93.0	50.0	31.2	65.8	0.0	0.0	95.0	0.0	0.0	0.0	–	0.0	–	0.0
93.0	55.0	–	–	–	3.3	–	0.0	–	–	–	–	–	–
93.0	60.0	–	0.0	–	2.5	0.0	0.0	–	–	–	–	–	–
93.0	70.0	–	–	–	9.4	–	0.0	–	–	–	–	–	–
93.0	80.0	–	–	–	7.3	–	12.2	–	–	–	–	–	–
97.0	30.0	9.7	0.0	0.0	181.1	9.4	16.6	0.0	0.0	–	0.0	–	0.0
97.0	32.0	6.8	185.3	–	–	–	–	–	–	–	–	–	–
97.0	35.0	–	–	2.9	0.0	69.4	6.9	0.0	0.0	–	0.0	–	0.0
97.0	40.0	12.2	71.3	0.0	0.0	2.8	0.0	0.0	0.0	–	0.0	–	10.4
97.0	45.0	–	–	–	0.0	6.6	0.0	0.0	–	–	–	–	–
97.0	50.0	25.4	48.2	–	0.0	6.5	0.0	0.0	0.0	–	0.0	–	4.8
97.0	60.0	0.0	25.7	–	0.0	0.0	0.0	–	–	–	–	–	–
97.0	65.0	–	–	–	–	–	22.6	–	–	–	–	–	–

TABLE 4. (cont.)

Stenobrachius leucopsarus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	70.0	–	–	–	0.0	8.5	0.0	–	–	–	–	–	–
97.0	90.0	–	–	–	0.0	–	2.6	–	–	–	–	–	–
100.0	29.0	0.0	2.8	10.2	2.8	13.2	3.2	0.0	0.0	–	0.0	–	2.2
100.0	30.0	3.0	6.6	0.0	18.8	0.0	0.0	0.0	3.4	–	0.0	–	8.1
100.0	35.0	–	–	–	3.1	0.0	8.2	0.0	0.0	–	–	–	–
100.0	40.0	0.0	12.9	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.3
100.0	50.0	0.0	7.3	0.0	0.0	0.0	12.3	0.0	0.0	–	0.0	–	0.0
100.0	60.0	0.0	3.3	2.7	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	70.0	0.0	3.1	5.8	2.8	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	80.0	0.0	3.2	30.0	5.4	0.0	0.0	0.0	0.0	–	–	–	0.0
103.0	30.0	–	–	–	–	9.4	0.0	0.0	0.0	–	0.0	–	0.0
103.0	35.0	–	–	–	0.0	8.7	0.0	0.0	0.0	–	0.0	–	0.0
103.0	40.0	–	–	–	0.0	12.0	0.0	0.0	0.0	–	0.0	–	2.5
103.0	45.0	–	–	–	5.0	2.6	0.0	–	–	–	–	–	–
103.0	50.0	–	–	–	0.0	2.9	0.0	–	–	–	–	–	–
103.0	55.0	–	–	–	0.0	6.3	0.0	–	–	–	–	–	–
103.0	80.0	–	–	–	2.6	0.0	0.0	–	–	–	–	–	–
105.0	35.0	0.0	0.0	2.1	–	–	–	–	–	–	–	–	–
105.0	40.0	3.5	0.0	0.0	–	–	–	–	–	–	–	–	–
105.0	60.0	0.0	6.1	0.0	–	–	–	–	–	–	–	–	–
105.0	70.0	3.8	–	0.0	–	–	–	–	–	–	–	–	–
105.0	80.0	4.6	–	0.0	–	–	–	–	–	–	–	–	–
107.0	40.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	4.8
110.0	35.0	–	0.0	0.0	356.7	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	40.0	–	0.0	0.0	46.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
113.0	30.0	–	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	–	0.0
113.0	35.0	–	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
117.0	40.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	–	–
117.0	50.0	0.0	0.0	0.0	1.7	0.0	0.0	–	–	–	–	–	–

Triphoturus mexicanus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	–	–	–	–
80.0	80.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	–	–	–	–
80.0	90.0	0.0	–	0.0	0.0	0.0	0.0	8.0	0.0	–	–	–	–
80.0	100.0	0.0	–	0.0	0.0	0.0	0.0	7.4	0.0	–	–	–	–
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	2.7
83.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	3.1	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	2.5	15.1	0.0
85.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	6.0	–	0.0	0.0
85.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0	2.9	–	6.3	0.0
85.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	0.0	–	2.9	0.0
85.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	23.2	–	0.0	0.0
85.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.3	–	0.0	–

TABLE 4. (cont.)

Triphoturus mexicanus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
85.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	-	-	0.0	-
87.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	-	3.6	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	11.2	2.1	-	0.0	0.0
87.0	50.0	-	0.0	0.0	0.0	1.6	0.0	0.0	2.0	0.0	-	-	0.0
87.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	14.4	0.0
87.0	65.0	-	-	-	-	-	4.7	-	-	-	-	-	-
87.0	80.0	-	-	-	0.0	2.3	-	-	-	-	-	-	-
87.0	90.0	-	-	-	0.0	0.0	2.8	-	-	-	-	-	-
90.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	34.0	-	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.1	-	5.8	-	0.0
90.0	37.0	0.0	0.0	0.0	0.0	-	5.5	0.0	0.0	-	2.9	-	0.0
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	11.6	-	0.0
90.0	55.0	-	-	0.0	0.0	0.0	0.0	17.4	0.0	-	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	0.0	-	17.5	0.0	-	0.0	-	-
90.0	90.0	0.0	-	0.0	0.0	0.0	3.5	-	-	-	-	-	-
93.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.7	-	5.5	-	0.0
93.0	35.0	-	-	-	0.0	0.0	6.6	20.2	21.8	-	-	-	-
93.0	40.0	0.0	0.0	-	0.0	0.0	0.0	2.5	2.7	-	8.6	-	0.0
93.0	45.0	-	-	-	6.3	0.0	5.8	0.0	-	-	-	-	-
93.0	50.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	-	6.1	-	0.0
93.0	55.0	-	-	-	0.0	-	6.0	-	-	-	-	-	-
93.0	90.0	-	-	-	0.0	-	9.7	-	-	-	-	-	-
97.0	30.0	0.0	2.1	0.0	5.7	0.0	0.0	0.0	0.0	-	24.9	-	0.0
97.0	35.0	-	-	0.0	0.0	0.0	0.0	18.1	0.0	-	5.6	-	0.0
97.0	40.0	3.0	3.0	6.3	0.0	0.0	0.0	25.5	0.0	-	20.6	-	0.0
97.0	45.0	-	-	-	3.8	0.0	0.0	3.3	-	-	-	-	-
97.0	50.0	3.2	0.0	-	9.6	0.0	0.0	0.0	0.0	-	30.8	-	0.0
97.0	55.0	-	-	-	5.7	-	-	-	-	-	-	-	-
97.0	60.0	0.0	0.0	-	3.2	0.0	39.3	-	-	-	-	-	-
97.0	65.0	-	-	-	-	-	25.5	-	-	-	-	-	-
97.0	70.0	-	-	-	14.9	0.0	0.0	-	-	-	-	-	-
97.0	90.0	-	-	-	17.1	-	78.9	-	-	-	-	-	-
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9	0.0	-	0.0	-	0.0
100.0	35.0	-	-	-	12.4	0.0	4.1	0.0	42.9	-	-	-	-
100.0	40.0	0.0	0.0	22.9	3.4	3.1	14.1	0.0	7.2	-	8.1	-	2.3
100.0	45.0	-	-	-	3.4	3.2	0.0	43.0	-	-	-	-	-
100.0	50.0	0.0	0.0	0.0	0.0	2.5	0.0	7.1	0.0	-	156.1	-	0.0
100.0	55.0	-	-	-	3.5	0.0	18.3	-	0.0	-	-	-	-
100.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	3.6	-	106.0	-	0.0
100.0	65.0	-	-	-	-	-	6.6	-	-	-	-	-	-
100.0	70.0	0.0	0.0	5.8	0.0	6.4	4.7	0.0	19.7	-	20.4	-	0.0
100.0	80.0	0.0	3.2	0.0	0.0	6.0	21.9	2.4	3.7	-	-	-	4.9
100.0	90.0	0.0	-	-	0.0	6.1	31.9	-	-	-	-	-	-
100.0	100.0	-	-	-	-	-	35.0	-	-	-	-	-	-
103.0	30.0	-	-	-	-	0.0	0.0	0.0	28.1	-	3.4	-	2.4
103.0	35.0	-	-	-	5.6	0.0	0.0	0.0	26.6	-	0.0	-	2.8

TABLE 4. (cont.)

Triphoturus mexicanus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	40.0	-	-	-	2.7	6.0	18.2	8.8	16.9	-	27.1	-	2.5
103.0	45.0	-	-	-	0.0	2.6	18.8	-	-	-	-	-	-
103.0	50.0	-	-	-	2.7	11.5	15.3	-	-	-	-	-	-
103.0	55.0	-	-	-	0.0	6.3	16.8	-	-	-	-	-	-
103.0	60.0	-	-	-	3.1	5.7	25.8	-	-	-	-	-	-
103.0	70.0	-	-	-	23.1	11.0	30.4	-	-	-	-	-	-
103.0	80.0	-	-	-	2.6	29.3	25.2	-	-	-	-	-	-
103.0	90.0	-	-	-	-	14.9	14.6	-	-	-	-	-	-
105.0	32.0	2.1	0.0	0.0	-	-	-	-	-	-	-	-	-
105.0	35.0	0.0	0.0	4.3	-	-	-	-	-	-	-	-	-
105.0	40.0	0.0	0.0	2.6	-	-	-	-	-	-	-	-	-
105.0	50.0	0.0	0.0	16.6	-	-	-	-	-	-	-	-	-
105.0	60.0	8.7	0.0	5.5	-	-	-	-	-	-	-	-	-
105.0	70.0	0.0	-	10.8	-	-	-	-	-	-	-	-	-
105.0	80.0	0.0	-	23.1	-	-	-	-	-	-	-	-	-
107.0	32.0	-	-	-	0.0	0.0	0.0	18.1	0.0	-	8.1	-	0.0
107.0	35.0	-	-	-	10.8	0.0	2.8	54.1	13.6	-	3.5	-	0.0
107.0	40.0	-	-	-	3.1	0.0	18.7	64.8	11.3	-	112.6	-	0.0
107.0	45.0	-	-	-	12.2	0.0	4.7	-	-	-	-	-	-
107.0	50.0	-	-	-	15.4	31.0	0.0	-	-	-	-	-	-
107.0	55.0	-	-	-	0.0	13.5	36.1	-	-	-	-	-	-
107.0	60.0	-	-	-	50.2	9.8	11.2	-	-	-	-	-	-
107.0	65.0	-	-	-	-	-	32.9	-	-	-	-	-	-
107.0	70.0	-	-	-	45.3	35.9	29.6	-	-	-	-	-	-
107.0	80.0	-	-	-	58.8	11.3	-	-	-	-	-	-	-
107.0	90.0	-	-	-	6.6	19.1	-	-	-	-	-	-	-
110.0	33.0	-	0.0	0.0	23.8	-	0.0	2.3	10.3	-	11.0	-	0.0
110.0	35.0	-	0.0	0.0	0.0	0.0	11.1	0.0	167.6	-	109.8	-	0.0
110.0	40.0	-	2.8	8.4	4.2	2.8	6.2	15.7	64.4	-	34.9	-	0.0
110.0	45.0	-	-	-	7.5	7.9	2.9	-	-	-	-	-	-
110.0	50.0	0.0	3.1	16.5	16.0	22.2	2.8	149.9	24.8	-	114.0	-	5.7
110.0	55.0	-	-	-	12.0	26.7	17.2	-	-	-	-	-	-
110.0	60.0	0.0	9.1	56.5	23.2	11.5	7.5	8.0	63.2	-	31.9	-	0.0
110.0	65.0	-	-	-	-	-	22.7	-	-	-	-	-	-
110.0	70.0	0.0	-	5.6	41.6	36.0	18.6	-	-	-	-	-	-
110.0	80.0	0.0	-	-	0.0	24.1	-	-	-	-	-	-	-
110.0	90.0	-	-	-	3.1	7.8	-	-	-	-	-	-	-
113.0	30.0	-	4.5	0.0	0.0	2.3	0.0	0.0	3.3	0.0	0.0	-	0.0
113.0	35.0	-	5.3	2.7	12.5	5.4	5.1	0.0	11.3	72.5	174.4	-	0.0
113.0	40.0	-	8.8	7.2	30.0	68.9	13.2	74.4	37.1	-	260.8	-	2.2
113.0	45.0	-	-	15.1	30.2	26.8	13.1	-	-	-	-	-	-
113.0	50.0	2.8	2.5	4.5	7.8	74.6	3.0	-	-	-	-	-	-
113.0	55.0	-	-	22.1	10.3	0.0	33.6	-	-	-	-	-	-
113.0	60.0	-	5.1	53.8	11.8	85.3	33.2	-	-	-	-	-	-
113.0	65.0	-	-	-	-	-	25.6	-	-	-	-	-	-
113.0	70.0	-	-	-	37.5	66.9	269.0	-	-	-	-	-	-

TABLE 4. (cont.)

Triphoturus mexicanus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
115.0	30.0	–	–	–	–	–	–	–	–	2.0	–	–	–
115.0	35.0	–	–	–	–	–	–	–	–	33.6	–	–	–
117.0	26.0	–	0.0	0.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	–	0.0
117.0	30.0	–	0.0	0.0	1.0	0.0	0.0	0.0	0.0	3.6	0.0	–	0.0
117.0	35.0	–	0.0	2.9	0.0	11.8	0.0	3.4	28.7	8.3	32.3	–	–
117.0	40.0	9.4	3.0	2.8	3.0	13.3	10.5	17.1	54.6	0.0	211.1	–	–
117.0	45.0	–	–	35.1	5.8	5.8	23.2	–	–	–	–	–	–
117.0	50.0	0.0	0.0	18.8	6.5	5.5	11.1	–	–	–	–	–	–
117.0	55.0	–	–	54.0	51.5	2.6	16.1	–	–	–	–	–	–
117.0	60.0	–	6.5	32.5	47.3	7.1	23.1	–	–	–	–	–	–
117.0	65.0	–	–	–	–	–	26.0	–	–	–	–	–	–
117.0	70.0	–	–	–	22.3	78.1	146.6	–	–	–	–	–	–
118.5	25.0	–	–	–	–	–	–	–	–	1.3	–	–	–
118.5	30.0	–	–	–	–	–	–	–	–	2.2	–	–	–
118.5	35.0	–	–	–	–	–	–	–	–	3.3	–	–	–
119.0	42.0	–	–	–	–	–	–	–	–	28.3	–	–	–
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	–	12.9	1.2	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	–	0.0
120.0	35.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	75.1	0.0	10.2	–	0.0
120.0	43.0	–	–	–	–	–	–	–	–	43.0	–	–	–
120.0	45.0	48.6	22.3	0.0	0.0	0.0	0.0	2.5	109.9	–	21.5	–	0.0
120.0	50.0	2.7	11.6	2.5	17.8	35.5	36.5	26.7	24.8	–	57.1	–	0.0
120.0	55.0	–	–	2.9	17.5	2.7	19.0	–	–	–	–	–	–
120.0	60.0	0.0	2.7	11.6	23.6	80.0	65.3	48.1	127.5	–	75.4	–	2.3
120.0	65.0	–	–	–	–	–	89.3	–	–	–	–	–	–
120.0	70.0	0.0	8.9	–	48.9	25.8	125.6	44.1	35.0	–	213.0	–	0.0
120.0	80.0	2.7	6.3	–	80.0	68.6	28.6	77.4	62.6	–	25.0	–	0.0
120.0	90.0	–	–	–	19.7	31.9	29.4	114.8	77.6	–	16.9	–	5.1
121.0	34.0	–	–	–	–	–	–	–	–	1.4	–	–	–
121.0	41.0	–	–	–	–	–	–	–	–	21.8	–	–	–
123.0	37.0	4.5	19.5	0.9	0.0	0.0	2.3	–	2.2	–	5.0	–	0.0
123.0	40.0	–	27.4	12.0	3.0	0.0	2.6	0.0	18.5	–	81.0	–	0.0
123.0	45.0	–	18.1	14.0	70.0	16.7	11.9	21.7	45.8	–	–	–	–
123.0	50.0	–	6.1	23.2	48.4	9.1	8.9	20.9	130.6	–	112.8	–	4.5
123.0	55.0	–	–	21.4	59.5	34.1	5.8	–	–	–	–	–	–
123.0	60.0	–	–	30.4	8.4	36.5	26.9	–	–	–	–	–	–
127.0	34.0	0.0	2.2	3.6	0.0	0.0	3.0	0.0	5.6	–	0.0	–	2.3
127.0	40.0	–	45.0	5.4	15.9	15.5	37.8	4.9	23.1	–	22.2	–	0.0
127.0	45.0	–	21.8	10.9	11.1	59.3	0.0	92.2	0.0	–	–	–	–
127.0	50.0	–	8.0	14.4	253.1	12.7	13.7	49.4	40.7	–	28.0	–	0.0
127.0	55.0	–	–	15.1	24.0	2.7	8.7	–	–	–	–	–	–
127.0	60.0	–	–	46.5	35.8	8.8	7.9	–	–	–	–	–	–
130.0	30.0	–	0.0	1.7	0.0	0.0	0.0	–	0.0	–	3.3	–	0.0
130.0	35.0	2.2	0.0	7.4	0.0	0.0	0.0	17.0	10.7	–	0.0	–	4.7
130.0	40.0	20.6	10.2	18.4	16.4	0.0	0.0	39.3	36.0	–	45.0	–	7.7
130.0	45.0	–	11.0	9.8	21.2	6.8	0.0	10.6	14.8	–	–	–	–

TABLE 4. (cont.)

Triphoturus mexicanus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	50.0	–	16.9	25.3	21.8	121.4	14.3	73.4	43.7	–	11.0	–	0.0
130.0	55.0	–	–	26.5	77.3	96.7	32.0	–	–	–	–	–	–
130.0	60.0	3.1	0.0	92.1	26.5	15.7	13.4	0.0	119.3	–	–	–	2.4
133.0	25.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
133.0	30.0	0.0	2.6	1.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
133.0	35.0	–	–	26.5	0.0	11.2	30.3	0.0	31.5	–	–	–	–
133.0	40.0	2.2	25.6	11.6	3.2	24.2	3.7	16.1	0.0	–	120.7	–	2.7
133.0	45.0	–	–	4.3	23.2	45.3	19.3	–	–	–	–	–	–
133.0	50.0	7.1	–	8.4	7.3	110.3	12.9	–	–	–	–	–	–
133.0	55.0	–	–	10.1	91.2	96.5	–	–	–	–	–	–	–
133.0	60.0	–	–	50.3	27.5	2.8	–	–	–	–	–	–	–
137.0	23.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
137.0	30.0	0.0	–	0.0	0.0	0.0	0.0	68.9	0.0	–	–	–	0.0
137.0	35.0	–	–	0.0	11.8	9.8	0.0	–	–	–	–	–	–
137.0	40.0	2.5	–	5.8	0.0	0.0	0.0	–	–	–	–	–	–
137.0	45.0	–	–	6.5	7.9	9.5	0.0	–	–	–	–	–	–
137.0	50.0	2.3	–	13.3	3.2	0.0	0.0	–	–	–	–	–	–
137.0	55.0	–	–	12.9	15.4	0.0	–	–	–	–	–	–	–
137.0	60.0	–	–	29.2	69.6	6.3	–	–	–	–	–	–	–
143.0	35.0	2.3	–	–	–	–	–	–	–	–	–	–	–
147.0	25.0	2.6	–	–	–	–	–	–	–	–	–	–	–

Diogenichthys spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
105.0	70.0	3.8	–	0.0	–	–	–	–	–	–	–	–	–
105.0	80.0	4.6	–	0.0	–	–	–	–	–	–	–	–	–

Diogenichthys atlanticus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	80.0	–	–	–	–	0.0	2.9	0.0	0.0	–	–	–	–
80.0	80.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	–	–	–	–
80.0	90.0	2.3	–	0.0	2.8	0.0	0.0	0.0	0.0	–	–	–	–
80.0	100.0	0.0	–	0.0	16.3	0.0	8.0	0.0	2.3	–	–	–	–
80.0	120.0	–	–	–	4.9	7.2	–	–	–	–	–	–	–
80.0	130.0	–	–	–	5.6	12.1	–	–	–	–	–	–	–
80.0	145.0	–	–	–	23.7	5.4	–	–	–	–	–	–	–
80.0	153.0	–	–	–	–	9.0	–	–	–	–	–	–	–
80.0	160.0	–	–	–	0.0	33.4	–	–	–	–	–	–	–
83.0	90.0	–	–	–	0.0	2.9	0.0	–	–	–	–	–	–
90.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	–	0.0	–	0.0
90.0	70.0	0.0	0.0	0.0	0.0	1.9	–	0.0	0.0	–	0.0	–	–
90.0	90.0	0.0	–	6.3	0.0	2.5	0.0	–	–	–	–	–	–

TABLE 4. (cont.)

Diogenichthys atlanticus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 110.0	–	–	–	1.8	2.9	–	–	–	–	–	–	–
90.0 130.0	–	–	–	0.0	9.2	–	–	–	–	–	–	–
90.0 145.0	–	–	–	2.5	7.5	–	–	–	–	–	–	–
90.0 160.0	–	–	–	2.6	5.7	–	–	–	–	–	–	–
93.0 80.0	–	–	–	7.3	–	0.0	–	–	–	–	–	–
97.0 70.0	–	–	–	12.0	0.0	0.0	–	–	–	–	–	–
97.0 80.0	–	–	–	3.2	–	3.3	–	–	–	–	–	–
97.0 90.0	–	–	–	10.2	–	0.0	–	–	–	–	–	–
100.0 35.0	–	–	–	3.1	0.0	0.0	0.0	0.0	–	–	–	–
100.0 70.0	0.0	0.0	0.0	25.3	0.0	0.0	0.0	0.0	–	0.0	–	2.8
100.0 80.0	0.0	6.4	0.0	5.4	0.0	0.0	0.0	0.0	–	–	–	4.9
100.0 90.0	3.1	–	–	0.0	3.0	0.0	–	–	–	–	–	–
103.0 50.0	–	–	–	2.7	0.0	0.0	–	–	–	–	–	–
103.0 60.0	–	–	–	0.0	5.7	0.0	–	–	–	–	–	–
103.0 70.0	–	–	–	2.9	0.0	0.0	–	–	–	–	–	–
103.0 80.0	–	–	–	10.6	2.4	11.2	–	–	–	–	–	–
105.0 40.0	0.0	0.0	2.6	–	–	–	–	–	–	–	–	–
105.0 50.0	3.4	0.0	0.0	–	–	–	–	–	–	–	–	–
105.0 70.0	3.8	–	0.0	–	–	–	–	–	–	–	–	–
107.0 32.0	–	–	–	0.0	3.1	0.0	0.0	0.0	–	0.0	–	0.0
107.0 50.0	–	–	–	0.0	3.1	0.0	–	–	–	–	–	–
107.0 55.0	–	–	–	3.4	0.0	5.6	–	–	–	–	–	–
107.0 60.0	–	–	–	2.8	0.0	2.2	–	–	–	–	–	–
107.0 90.0	–	–	–	3.3	0.0	–	–	–	–	–	–	–
110.0 50.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.9	–	2.8
110.0 60.0	0.0	0.0	2.6	0.0	0.0	2.5	0.0	0.0	–	6.4	–	0.0
110.0 70.0	0.0	–	0.0	6.4	0.0	0.0	–	–	–	–	–	–
110.0 80.0	2.3	–	–	0.0	0.0	–	–	–	–	–	–	–
113.0 35.0	–	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
113.0 55.0	–	–	0.0	0.0	0.0	2.8	–	–	–	–	–	–
120.0 60.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0 70.0	0.0	0.0	–	0.9	0.0	0.0	0.0	0.0	–	0.0	–	0.0

Diogenichthys laternatus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0 70.0	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0 80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	2.4
103.0 90.0	–	–	–	–	3.0	0.0	–	–	–	–	–	–
107.0 50.0	–	–	–	0.0	0.0	10.1	–	–	–	–	–	–
110.0 50.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	–	7.9	–	0.0
110.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	–	0.0	–	2.7
113.0 35.0	–	0.0	2.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
113.0 40.0	–	0.0	0.0	2.4	0.0	0.0	0.0	0.0	–	16.3	–	0.0
113.0 70.0	–	–	–	0.0	0.0	29.6	–	–	–	–	–	–

TABLE 4. (cont.)

Diogenichthys laternatus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
115.0	30.0	-	-	-	-	-	-	-	-	4.0	-	-	-
115.0	35.0	-	-	-	-	-	-	-	-	3.4	-	-	-
117.0	30.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	-	0.0
117.0	35.0	-	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	9.7	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	-	-
117.0	60.0	-	0.0	0.0	4.4	0.0	0.0	-	-	-	-	-	-
117.0	70.0	-	-	-	0.0	0.0	5.6	-	-	-	-	-	-
119.0	42.0	-	-	-	-	-	-	-	-	32.3	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	0.0
120.0	35.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	-	0.0
120.0	40.0	-	-	0.0	0.0	4.0	0.0	-	-	-	-	-	-
120.0	43.0	-	-	-	-	-	-	-	-	35.9	-	-	-
120.0	45.0	7.7	2.8	0.0	0.0	0.0	0.0	2.5	0.0	-	3.6	-	0.0
120.0	50.0	5.3	0.0	5.1	0.0	0.0	0.0	0.0	0.0	-	39.3	-	0.0
120.0	55.0	-	-	0.0	1.3	2.7	4.8	-	-	-	-	-	-
120.0	60.0	2.4	0.0	0.0	0.0	0.0	0.0	5.1	13.1	-	35.7	-	53.1
120.0	65.0	-	-	-	-	-	2.5	-	-	-	-	-	-
120.0	70.0	0.0	0.0	-	0.0	0.0	1.6	5.9	10.8	-	54.1	-	4.8
120.0	80.0	8.0	3.1	-	7.9	0.0	0.0	12.9	16.3	-	6.2	-	0.0
121.0	41.0	-	-	-	-	-	-	-	-	16.4	-	-	-
123.0	37.0	4.5	6.5	0.0	0.0	0.0	0.0	-	4.4	-	0.0	-	8.9
123.0	40.0	-	52.1	1.7	0.0	0.0	0.0	0.0	5.3	-	6.5	-	24.9
123.0	45.0	-	18.1	5.2	0.0	0.0	0.0	7.2	7.6	-	-	-	-
123.0	50.0	-	0.0	42.5	17.1	0.0	0.0	0.0	6.2	-	7.3	-	13.4
123.0	55.0	-	-	31.2	64.1	0.0	0.0	-	-	-	-	-	-
123.0	60.0	-	-	58.9	8.4	20.5	4.5	-	-	-	-	-	-
127.0	34.0	1.5	0.0	2.9	1.6	5.2	18.1	0.0	0.0	-	0.0	-	0.0
127.0	40.0	-	42.1	0.0	0.0	0.0	26.0	0.0	5.8	-	11.1	-	11.5
127.0	45.0	-	30.0	15.0	0.0	2.5	0.0	12.8	11.0	-	-	-	-
127.0	50.0	-	59.8	10.8	72.3	16.9	0.0	0.0	6.3	-	0.0	-	0.0
127.0	55.0	-	-	19.2	14.4	0.0	0.0	-	-	-	-	-	-
127.0	60.0	-	-	11.1	16.5	0.0	21.1	-	-	-	-	-	-
130.0	30.0	-	8.2	2.6	13.9	0.0	0.0	-	0.0	-	0.0	-	0.0
130.0	35.0	0.0	47.7	10.1	13.2	0.0	9.8	0.0	7.1	-	3.5	-	45.0
130.0	40.0	10.3	43.2	31.2	43.7	8.0	8.7	13.9	10.8	-	147.2	-	17.9
130.0	45.0	-	19.3	21.2	0.0	0.0	11.3	0.0	8.9	-	-	-	-
130.0	50.0	-	11.2	21.1	30.0	18.5	5.7	2.0	4.0	-	18.3	-	0.0
130.0	55.0	-	-	4.7	77.3	12.5	0.0	-	-	-	-	-	-
130.0	60.0	6.1	2.9	57.5	0.0	26.2	35.8	0.0	53.9	-	-	-	2.4
133.0	25.0	0.0	0.0	6.0	1.9	0.0	0.0	0.0	0.0	-	3.2	-	0.0
133.0	30.0	16.0	5.2	16.5	6.4	2.1	0.0	1.9	37.1	-	43.4	-	0.0
133.0	35.0	-	-	30.1	44.5	8.4	90.9	8.3	0.0	-	-	-	-
133.0	40.0	4.4	11.4	6.7	12.8	0.0	36.9	13.8	6.4	-	106.5	-	0.0
133.0	45.0	-	-	14.3	37.7	8.2	0.0	-	-	-	-	-	-
133.0	50.0	11.9	-	31.8	0.0	45.7	0.0	-	-	-	-	-	-
133.0	55.0	-	-	16.9	88.2	11.8	-	-	-	-	-	-	-

TABLE 4. (cont.)

Diogenichthys laternatus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	60.0	-	-	32.6	27.5	2.8	-	-	-	-	-	-	-
137.0	30.0	0.0	-	1.3	11.9	0.0	0.0	50.4	0.0	-	-	-	0.0
137.0	35.0	-	-	3.7	8.8	0.0	2.5	-	-	-	-	-	-
137.0	40.0	2.5	-	7.3	5.6	6.1	2.8	-	-	-	-	-	-
137.0	45.0	-	-	31.2	0.0	3.2	0.0	-	-	-	-	-	-
137.0	50.0	9.2	-	24.1	41.1	27.1	0.0	-	-	-	-	-	-
137.0	55.0	-	-	59.6	23.0	60.5	-	-	-	-	-	-	-
137.0	60.0	-	-	55.1	34.8	56.9	-	-	-	-	-	-	-
140.0	35.0	2.7	-	-	-	-	-	-	-	-	-	-	-
140.0	40.0	21.3	-	-	-	-	-	-	-	-	-	-	-
143.0	35.0	18.4	-	-	-	-	-	-	-	-	-	-	-
147.0	20.0	4.0	-	-	-	-	-	-	-	-	-	-	-
147.0	25.0	2.6	-	-	-	-	-	-	-	-	-	-	-
147.0	30.0	21.3	-	-	-	-	-	-	-	-	-	-	-
150.0	30.0	10.9	-	-	-	-	-	-	-	-	-	-	-
150.0	40.0	4.8	-	-	-	-	-	-	-	-	-	-	-

Electrona rissoi

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	138.0	-	-	-	-	2.6	-	-	-	-	-	-	-
80.0	153.0	-	-	-	-	3.0	-	-	-	-	-	-	-
80.0	160.0	-	-	-	0.0	6.1	-	-	-	-	-	-	-
90.0	145.0	-	-	-	0.0	7.5	-	-	-	-	-	-	-

Gonichthys tenuiculus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	80.0	-	-	-	0.0	0.0	2.8	-	-	-	-	-	-
120.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	4.0	-	0.0
120.0	80.0	0.0	0.0	-	0.0	0.0	0.0	2.6	0.0	-	0.0	-	0.0
123.0	50.0	-	0.0	0.0	0.0	0.0	0.0	3.0	0.0	-	0.0	-	0.0
123.0	60.0	-	-	2.8	0.0	2.3	0.0	-	-	-	-	-	-
127.0	55.0	-	-	0.0	9.6	0.0	0.0	-	-	-	-	-	-
127.0	60.0	-	-	1.3	0.0	0.0	0.0	-	-	-	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.4
130.0	40.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	55.0	-	-	10.3	0.0	12.5	0.0	-	-	-	-	-	-
130.0	60.0	3.1	0.0	6.9	2.7	2.6	0.0	0.0	0.0	-	-	-	0.0
133.0	25.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	30.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	35.0	-	-	2.8	0.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	40.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	45.0	-	-	4.6	11.6	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Gonichthys tenuiculus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0 50.0	0.0	–	0.0	0.0	5.4	0.0	–	–	–	–	–	–
133.0 55.0	–	–	0.0	24.3	9.9	–	–	–	–	–	–	–
133.0 60.0	–	–	3.0	0.0	0.0	–	–	–	–	–	–	–
137.0 45.0	–	–	0.0	4.0	0.0	0.0	–	–	–	–	–	–
137.0 50.0	0.0	–	4.1	0.0	0.0	0.0	–	–	–	–	–	–
137.0 55.0	–	–	0.0	5.1	2.8	–	–	–	–	–	–	–
137.0 60.0	–	–	16.2	11.6	3.2	–	–	–	–	–	–	–
143.0 35.0	2.3	–	–	–	–	–	–	–	–	–	–	–
147.0 30.0	2.4	–	–	–	–	–	–	–	–	–	–	–

Hygophum spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 100.0	0.0	–	0.0	0.0	0.0	0.0	7.4	0.0	–	–	–	–
90.0 80.0	0.0	3.3	0.0	0.0	0.0	0.0	–	–	–	–	–	–
90.0 160.0	–	–	–	5.2	0.0	–	–	–	–	–	–	–
93.0 60.0	–	0.0	–	2.5	0.0	0.0	–	–	–	–	–	–
97.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	–	0.0	–	0.0
100.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	–	0.0	–	0.0
100.0 80.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	0.0
103.0 70.0	–	–	–	0.0	0.0	12.2	–	–	–	–	–	–
103.0 90.0	–	–	–	–	0.0	14.6	–	–	–	–	–	–
107.0 80.0	–	–	–	2.8	0.0	–	–	–	–	–	–	–
113.0 35.0	–	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
120.0 55.0	–	–	0.0	0.0	0.0	4.8	–	–	–	–	–	–
120.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	4.0	–	0.0
120.0 65.0	–	–	–	–	–	2.5	–	–	–	–	–	–
123.0 60.0	–	–	1.4	0.0	0.0	0.0	–	–	–	–	–	–
130.0 55.0	–	–	0.0	2.2	3.1	0.0	–	–	–	–	–	–
133.0 50.0	0.0	–	0.0	3.7	0.0	0.0	–	–	–	–	–	–
133.0 55.0	–	–	0.0	0.0	2.0	–	–	–	–	–	–	–
137.0 45.0	–	–	2.9	0.0	0.0	0.0	–	–	–	–	–	–
137.0 50.0	0.0	–	1.4	0.0	0.0	0.0	–	–	–	–	–	–
137.0 60.0	–	–	3.2	17.4	0.0	–	–	–	–	–	–	–

Hygophum atratum

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	–	0.0	–	0.0
105.0 70.0	0.0	–	16.3	–	–	–	–	–	–	–	–	–
117.0 35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	–	–
117.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	–	–
117.0 55.0	–	–	0.0	1.5	0.0	0.0	–	–	–	–	–	–
120.0 45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.7

TABLE 4. (cont.)

Hygophum atratum (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	–	0.0	–	0.0
120.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.3
120.0 70.0	0.0	0.0	–	0.0	0.0	1.6	0.0	0.0	–	3.6	–	0.0
123.0 40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.2	–	0.0
123.0 50.0	–	0.0	0.0	2.8	0.0	0.0	0.0	0.0	–	3.6	–	0.0
123.0 60.0	–	–	0.0	0.0	0.0	4.5	–	–	–	–	–	–
127.0 40.0	–	2.8	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0 50.0	–	0.0	2.7	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0 60.0	–	–	2.7	0.0	0.0	0.0	–	–	–	–	–	–
130.0 40.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0 50.0	–	0.0	0.0	0.0	2.6	0.0	0.0	0.0	–	0.0	–	0.0
130.0 60.0	0.0	0.0	6.6	2.7	0.0	2.2	0.0	0.0	–	–	–	0.0
133.0 40.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	–	3.5	–	0.0
133.0 45.0	–	–	2.8	0.0	0.0	0.0	–	–	–	–	–	–
133.0 50.0	0.0	–	1.4	0.0	2.7	0.0	–	–	–	–	–	–
133.0 55.0	–	–	0.0	3.0	0.0	–	–	–	–	–	–	–
133.0 60.0	–	–	0.0	3.1	0.0	–	–	–	–	–	–	–
137.0 30.0	0.0	–	0.0	0.0	0.0	0.0	2.7	0.0	–	–	–	0.0
137.0 45.0	–	–	1.2	0.0	0.0	0.0	–	–	–	–	–	–
150.0 30.0	5.4	–	–	–	–	–	–	–	–	–	–	–

Hygophum reinhardtii

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0 70.0	–	–	–	0.0	2.8	0.0	–	–	–	–	–	–

Loweina rara

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0 51.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0 145.0	–	–	–	2.5	3.8	–	–	–	–	–	–	–
90.0 160.0	–	–	–	2.6	3.8	–	–	–	–	–	–	–
97.0 32.0	0.0	2.8	–	–	–	–	–	–	–	–	–	–
120.0 80.0	0.0	0.0	–	0.0	2.5	0.0	0.0	0.0	–	0.0	–	0.0
123.0 60.0	–	–	5.6	0.0	0.0	0.0	–	–	–	–	–	–
127.0 34.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0 40.0	–	2.8	0.0	0.0	0.0	0.0	0.0	0.0	–	2.2	–	0.0
127.0 50.0	–	4.0	0.0	2.3	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0 55.0	–	–	7.4	2.4	0.0	0.0	–	–	–	–	–	–
127.0 60.0	–	–	3.1	8.3	0.0	0.0	–	–	–	–	–	–
130.0 45.0	–	2.8	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
130.0 50.0	–	0.0	0.0	2.7	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0 55.0	–	–	0.0	8.8	0.0	0.0	–	–	–	–	–	–
130.0 60.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	–	–	–	2.4

TABLE 4. (cont.)

Loweina rara (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	40.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	-	3.5	-	0.0
133.0	45.0	-	-	1.4	0.0	0.0	0.0	-	-	-	-	-	-
133.0	55.0	-	-	0.0	3.0	0.0	-	-	-	-	-	-	-
133.0	60.0	-	-	3.0	3.1	0.0	-	-	-	-	-	-	-
137.0	50.0	0.0	-	2.7	0.0	0.0	0.0	-	-	-	-	-	-
137.0	60.0	-	-	0.0	5.8	0.0	-	-	-	-	-	-	-

Myctophum nitidulum

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	152.5	-	-	-	-	7.4	-	-	-	-	-	-	-
100.0	80.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	0.0
103.0	90.0	-	-	-	-	3.0	0.0	-	-	-	-	-	-
107.0	80.0	-	-	-	0.0	5.6	-	-	-	-	-	-	-
110.0	80.0	0.0	-	-	0.0	2.4	-	-	-	-	-	-	-
110.0	90.0	-	-	-	0.0	2.6	-	-	-	-	-	-	-
120.0	55.0	-	-	0.0	1.3	0.0	0.0	-	-	-	-	-	-

Protomyctophum crockeri

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	90.0	-	-	-	0.0	6.4	-	0.0	0.0	-	-	-	-
70.0	60.0	-	-	-	0.0	-	0.0	0.0	5.6	-	-	-	-
70.0	70.0	-	-	-	0.0	10.6	0.0	5.9	0.0	-	-	-	-
70.0	90.0	-	-	-	3.1	0.0	0.0	-	-	-	-	-	-
73.0	60.0	-	-	-	0.0	-	8.0	0.0	0.0	-	-	-	-
80.0	55.0	-	0.0	0.0	0.0	0.0	0.0	0.0	6.3	-	-	-	-
80.0	60.0	0.0	5.8	4.6	0.0	0.0	0.0	0.0	0.0	-	-	-	-
80.0	70.0	8.5	2.2	3.6	0.0	0.0	0.0	0.0	0.0	-	-	-	-
80.0	90.0	0.0	-	0.0	0.0	0.0	0.0	0.0	2.3	-	-	-	-
80.0	100.0	0.0	-	7.4	0.0	0.0	0.0	0.0	0.0	-	-	-	-
80.0	120.0	-	-	-	0.0	2.4	-	-	-	-	-	-	-
83.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3
83.0	51.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0
83.0	60.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	-	-	0.0	0.0
83.0	70.0	-	-	-	6.0	0.0	0.0	-	-	-	-	-	-
83.0	90.0	-	-	-	0.0	5.7	0.0	-	-	-	-	-	-
85.0	39.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
85.0	40.0	0.0	7.6	0.0	0.0	2.2	0.0	2.6	0.0	0.0	-	3.1	0.0
85.0	50.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
85.0	55.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	-
85.0	60.0	0.0	4.0	6.1	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-
87.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.5

TABLE 4. (cont.)

Protomyctophum crockeri (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	40.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
87.0	45.0	-	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
87.0	55.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	2.2	-	0.0	0.0
87.0	60.0	0.0	3.2	-	0.0	1.5	3.5	0.0	3.6	0.0	-	0.0	-
90.0	30.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
90.0	35.0	-	-	-	-	4.2	-	-	-	-	-	-	-
90.0	37.0	0.0	0.0	3.0	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0
90.0	45.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.7
90.0	50.0	-	-	0.0	-	0.0	0.0	0.0	0.0	-	3.3	-	0.0
90.0	55.0	-	-	0.0	0.0	0.0	0.0	0.0	6.4	-	0.0	-	0.0
90.0	70.0	0.0	0.0	6.8	0.0	7.5	-	0.0	0.0	-	3.3	-	-
90.0	80.0	0.0	3.3	12.1	0.0	0.0	0.0	-	-	-	-	-	-
90.0	90.0	2.5	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
90.0	120.0	-	-	-	6.2	0.0	-	-	-	-	-	-	-
93.0	30.0	2.8	0.0	3.0	5.6	0.0	5.3	0.0	0.0	-	2.7	-	0.0
93.0	35.0	-	-	-	0.0	0.0	3.3	5.0	0.0	-	-	-	-
93.0	40.0	0.0	12.0	-	11.6	0.0	0.0	2.5	0.0	-	0.0	-	5.9
93.0	45.0	-	-	-	6.3	0.0	0.0	12.3	-	-	-	-	-
93.0	50.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
93.0	55.0	-	-	-	3.3	-	0.0	-	-	-	-	-	-
93.0	60.0	-	0.0	-	2.5	0.0	0.0	-	-	-	-	-	-
93.0	70.0	-	-	-	18.8	-	0.0	-	-	-	-	-	-
93.0	80.0	-	-	-	10.9	-	0.0	-	-	-	-	-	-
93.0	90.0	-	-	-	0.0	-	6.5	-	-	-	-	-	-
97.0	30.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
97.0	32.0	13.5	0.0	-	-	-	-	-	-	-	-	-	-
97.0	35.0	-	-	0.0	12.9	0.0	0.0	0.0	0.0	-	2.8	-	2.6
97.0	40.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	5.2
97.0	50.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	-	2.8	-	0.0
97.0	60.0	0.0	6.4	-	3.2	0.0	5.6	-	-	-	-	-	-
97.0	65.0	-	-	-	-	-	2.8	-	-	-	-	-	-
97.0	70.0	-	-	-	17.9	0.0	0.0	-	-	-	-	-	-
97.0	80.0	-	-	-	3.2	-	0.0	-	-	-	-	-	-
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.7
100.0	35.0	-	-	-	9.3	2.5	0.0	0.0	10.7	-	-	-	-
100.0	40.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	-	0.0	-	2.3
100.0	45.0	-	-	-	0.0	3.2	0.0	0.0	-	-	-	-	-
100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	0.0	-	0.0	-	3.0
100.0	55.0	-	-	-	0.0	6.5	0.0	-	3.3	-	-	-	-
100.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	-	0.0	-	0.0
100.0	70.0	3.5	0.0	2.9	8.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	80.0	0.0	0.0	12.0	0.0	0.0	3.1	0.0	0.0	-	-	-	2.4
100.0	90.0	0.0	-	-	0.0	0.0	7.1	-	-	-	-	-	-
103.0	30.0	-	-	-	-	0.0	3.3	0.0	0.0	-	0.0	-	0.0
103.0	35.0	-	-	-	2.8	5.8	0.0	0.0	0.0	-	0.0	-	0.0
103.0	40.0	-	-	-	2.7	6.0	18.2	0.0	8.5	-	3.4	-	0.0

TABLE 4. (cont.)

Protomyctophum crockeri (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	45.0	–	–	–	12.5	0.0	12.6	–	–	–	–	–	–
103.0	50.0	–	–	–	0.0	2.9	0.0	–	–	–	–	–	–
103.0	55.0	–	–	–	0.0	6.3	0.0	–	–	–	–	–	–
103.0	60.0	–	–	–	3.1	0.0	0.0	–	–	–	–	–	–
103.0	70.0	–	–	–	2.9	0.0	0.0	–	–	–	–	–	–
105.0	35.0	0.0	0.0	2.1	–	–	–	–	–	–	–	–	–
105.0	40.0	0.0	0.0	15.8	–	–	–	–	–	–	–	–	–
105.0	50.0	0.0	5.7	0.0	–	–	–	–	–	–	–	–	–
105.0	60.0	0.0	0.0	5.5	–	–	–	–	–	–	–	–	–
105.0	80.0	0.0	–	2.9	–	–	–	–	–	–	–	–	–
107.0	32.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.2
107.0	35.0	–	–	–	0.0	2.6	0.0	0.0	0.0	–	0.0	–	2.5
107.0	40.0	–	–	–	3.1	0.0	0.0	2.6	0.0	–	0.0	–	0.0
107.0	50.0	–	–	–	3.1	0.0	0.0	–	–	–	–	–	–
107.0	55.0	–	–	–	6.7	0.0	0.0	–	–	–	–	–	–
107.0	60.0	–	–	–	2.8	3.3	0.0	–	–	–	–	–	–
107.0	80.0	–	–	–	11.2	5.6	–	–	–	–	–	–	–
107.0	90.0	–	–	–	6.6	3.2	–	–	–	–	–	–	–
110.0	35.0	–	0.0	5.8	0.0	3.4	0.0	0.0	0.0	–	0.0	–	0.0
110.0	40.0	–	2.8	0.0	0.0	0.0	0.0	0.0	3.4	–	0.0	–	0.0
110.0	45.0	–	–	–	0.0	5.2	0.0	–	–	–	–	–	–
110.0	50.0	0.0	3.1	5.5	0.0	0.0	0.0	0.0	0.0	–	11.8	–	5.7
110.0	60.0	3.1	0.0	2.6	0.0	0.0	0.0	0.0	0.0	–	3.2	–	0.0
110.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
110.0	70.0	0.0	–	0.0	12.8	2.8	0.0	–	–	–	–	–	–
110.0	90.0	–	–	–	3.1	0.0	–	–	–	–	–	–	–
113.0	30.0	–	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	–	0.0
113.0	35.0	–	2.7	5.4	4.9	0.0	0.0	4.4	0.0	0.0	0.0	–	2.2
113.0	40.0	–	2.9	0.0	4.4	0.0	2.6	0.0	0.0	–	0.0	–	2.2
113.0	45.0	–	–	0.0	4.4	0.0	0.0	–	–	–	–	–	–
113.0	50.0	0.0	0.0	0.0	1.5	0.0	0.0	–	–	–	–	–	–
113.0	55.0	–	–	3.2	2.9	0.0	0.0	–	–	–	–	–	–
113.0	60.0	–	0.0	0.0	0.0	0.0	4.7	–	–	–	–	–	–
113.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
113.0	70.0	–	–	–	2.8	0.0	0.0	–	–	–	–	–	–
117.0	35.0	–	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	–	–
117.0	40.0	3.1	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	–	–
117.0	45.0	–	–	2.7	0.0	0.0	0.0	–	–	–	–	–	–
117.0	55.0	–	–	0.0	4.3	0.0	3.2	–	–	–	–	–	–
117.0	60.0	–	0.0	0.0	7.0	0.0	0.0	–	–	–	–	–	–
117.0	70.0	–	–	–	6.3	0.0	2.8	–	–	–	–	–	–
120.0	45.0	0.0	2.8	2.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0	50.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	–	0.0	–	2.7
120.0	55.0	–	–	0.0	0.0	0.0	2.4	–	–	–	–	–	–
120.0	60.0	0.0	2.7	2.9	7.6	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0	65.0	–	–	–	–	–	5.1	–	–	–	–	–	–

TABLE 4. (cont.)

Protomyctophum crockeri (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 70.0	0.0	0.0	–	0.0	2.9	0.0	0.0	0.0	–	0.0	–	2.4
120.0 80.0	0.0	6.3	–	2.4	2.5	0.0	0.0	0.0	–	0.0	–	0.0
120.0 90.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.5
123.0 50.0	–	3.0	0.0	0.0	3.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0 45.0	–	0.0	0.0	0.0	0.0	2.5	0.0	0.0	–	–	–	–
127.0 50.0	–	0.0	1.4	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0 55.0	–	–	1.2	2.4	0.0	0.0	–	–	–	–	–	–
130.0 45.0	–	2.8	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
130.0 55.0	–	–	0.0	0.0	0.0	2.5	–	–	–	–	–	–
130.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	–	–	–	0.0
133.0 45.0	–	–	0.0	0.0	0.0	7.7	–	–	–	–	–	–

Symbolophorus californiensis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 80.0	–	–	–	–	2.7	2.9	0.0	0.0	–	–	–	–
80.0 100.0	0.0	–	0.0	7.0	6.5	2.7	22.3	0.0	–	–	–	–
80.0 110.0	–	–	–	3.0	3.3	–	–	–	–	–	–	–
80.0 120.0	–	–	–	7.4	4.8	–	–	–	–	–	–	–
80.0 130.0	–	–	–	0.0	21.1	–	–	–	–	–	–	–
80.0 145.0	–	–	–	11.8	2.7	–	–	–	–	–	–	–
80.0 160.0	–	–	–	0.0	3.0	–	–	–	–	–	–	–
83.0 48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0
83.0 90.0	–	–	–	0.0	5.7	9.2	–	–	–	–	–	–
87.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	–	0.0	0.0
87.0 45.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	–	0.0	0.0
90.0 37.0	0.0	0.0	0.0	0.0	–	0.0	5.5	0.0	–	0.0	–	2.6
90.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	–	0.0	–	0.0
90.0 70.0	3.2	0.0	0.0	0.0	1.9	–	0.0	0.0	–	0.0	–	–
90.0 90.0	0.0	–	6.3	0.0	2.5	3.5	–	–	–	–	–	–
90.0 110.0	–	–	–	1.8	14.3	–	–	–	–	–	–	–
90.0 120.0	–	–	–	0.0	22.0	–	–	–	–	–	–	–
90.0 130.0	–	–	–	6.7	0.0	–	–	–	–	–	–	–
90.0 139.0	–	–	–	–	5.6	–	–	–	–	–	–	–
90.0 145.0	–	–	–	12.7	15.1	–	–	–	–	2.7	–	0.0
93.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
93.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	–	–	–	–
93.0 55.0	–	–	–	3.3	–	0.0	–	–	–	–	–	–
93.0 60.0	–	0.0	–	0.0	0.0	6.1	–	–	–	–	–	–
93.0 80.0	–	–	–	0.0	–	2.0	–	–	–	–	–	–
93.0 90.0	–	–	–	3.3	–	3.2	–	–	–	–	–	–
97.0 35.0	–	–	0.0	0.0	0.0	0.0	6.0	0.0	–	0.0	–	2.6
97.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	–	0.0	–	0.0
97.0 45.0	–	–	–	0.0	0.0	0.0	3.3	–	–	–	–	–
97.0 60.0	0.0	3.2	–	0.0	0.0	0.0	–	–	–	–	–	–

TABLE 4. (cont.)

Symbolophorus californiensis (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	65.0	–	–	–	–	–	5.7	–	–	–	–	–	–
97.0	70.0	–	–	–	14.9	0.0	0.0	–	–	–	–	–	–
97.0	80.0	–	–	–	9.6	–	3.3	–	–	–	–	–	–
97.0	90.0	–	–	–	17.1	–	2.6	–	–	–	–	–	–
100.0	40.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	7.2	–	0.0	–	0.0
100.0	45.0	–	–	–	3.4	0.0	0.0	3.3	–	–	–	–	–
100.0	50.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	55.0	–	–	–	0.0	0.0	4.6	–	0.0	–	–	–	–
100.0	60.0	0.0	3.3	0.0	2.8	0.0	0.0	6.2	0.0	–	2.7	–	0.0
100.0	70.0	0.0	0.0	0.0	33.7	6.4	0.0	12.9	0.0	–	0.0	–	0.0
100.0	80.0	0.0	9.6	0.0	5.4	0.0	0.0	2.4	0.0	–	–	–	7.3
100.0	90.0	0.0	–	–	0.0	6.1	0.0	–	–	–	–	–	–
103.0	35.0	–	–	–	5.6	0.0	0.0	0.0	0.0	–	0.0	–	0.0
103.0	40.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	3.4	–	0.0
103.0	45.0	–	–	–	5.0	0.0	0.0	–	–	–	–	–	–
103.0	50.0	–	–	–	8.1	0.0	0.0	–	–	–	–	–	–
103.0	55.0	–	–	–	0.0	6.3	0.0	–	–	–	–	–	–
103.0	70.0	–	–	–	5.8	0.0	6.1	–	–	–	–	–	–
103.0	80.0	–	–	–	18.5	2.4	0.0	–	–	–	–	–	–
103.0	90.0	–	–	–	–	3.0	0.0	–	–	–	–	–	–
105.0	35.0	2.1	0.0	0.0	–	–	–	–	–	–	–	–	–
105.0	40.0	0.0	0.0	5.3	–	–	–	–	–	–	–	–	–
105.0	70.0	3.8	–	5.4	–	–	–	–	–	–	–	–	–
105.0	80.0	4.6	–	0.0	–	–	–	–	–	–	–	–	–
107.0	35.0	–	–	–	0.0	0.0	0.0	2.8	0.0	–	0.0	–	0.0
107.0	40.0	–	–	–	3.1	0.0	0.0	0.0	0.0	–	0.0	–	0.0
107.0	45.0	–	–	–	0.0	6.1	0.0	–	–	–	–	–	–
107.0	50.0	–	–	–	0.0	18.6	5.1	–	–	–	–	–	–
107.0	55.0	–	–	–	13.5	0.0	5.6	–	–	–	–	–	–
107.0	60.0	–	–	–	2.8	0.0	13.4	–	–	–	–	–	–
107.0	65.0	–	–	–	–	–	4.7	–	–	–	–	–	–
107.0	70.0	–	–	–	0.0	3.0	0.0	–	–	–	–	–	–
107.0	80.0	–	–	–	5.6	0.0	–	–	–	–	–	–	–
110.0	40.0	–	0.0	0.0	0.0	2.8	0.0	0.0	0.0	–	0.0	–	0.0
110.0	45.0	–	–	–	3.7	2.6	5.8	–	–	–	–	–	–
110.0	50.0	2.8	0.0	0.0	0.0	2.8	2.8	0.0	0.0	–	0.0	–	0.0
110.0	55.0	–	–	–	0.0	5.9	2.9	–	–	–	–	–	–
110.0	60.0	0.0	0.0	10.3	0.0	0.0	0.0	10.6	0.0	–	6.4	–	2.7
110.0	70.0	0.0	–	0.0	3.2	0.0	2.7	–	–	–	–	–	–
113.0	35.0	–	0.0	0.0	3.0	0.0	5.1	0.0	0.0	0.0	10.3	–	0.0
113.0	40.0	–	0.0	0.0	6.0	0.0	2.6	2.0	0.0	–	0.0	–	0.0
113.0	45.0	–	–	0.0	1.8	0.0	0.0	–	–	–	–	–	–
113.0	50.0	0.0	0.0	0.0	0.0	18.6	0.0	–	–	–	–	–	–
117.0	35.0	–	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	–	–
117.0	45.0	–	–	0.0	0.0	0.0	2.1	–	–	–	–	–	–
117.0	50.0	0.0	0.0	0.0	0.0	0.0	2.8	–	–	–	–	–	–

TABLE 4. (cont.)

Symbolophorus californiensis (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	55.0	–	–	0.0	10.2	2.6	0.0	–	–	–	–	–	–
117.0	60.0	–	0.0	0.0	11.8	2.4	0.0	–	–	–	–	–	–
117.0	65.0	–	–	–	–	–	2.0	–	–	–	–	–	–
117.0	70.0	–	–	–	0.0	5.0	0.0	–	–	–	–	–	–
120.0	80.0	2.7	0.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0	55.0	–	–	0.0	0.0	0.0	4.9	–	–	–	–	–	–

Tarletonbeania crenularis

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	–	–	–	0.0	2.8	5.3	8.8	0.0	–	–	–	–
60.0	60.0	–	–	–	0.0	2.6	16.3	4.4	3.3	–	–	–	–
60.0	65.0	–	–	–	–	7.8	17.8	–	–	–	–	–	–
60.0	70.0	–	–	–	3.3	21.8	–	5.5	0.0	–	–	–	–
60.0	80.0	–	–	–	13.3	56.8	–	0.0	0.0	–	–	–	–
60.0	90.0	–	–	–	0.0	19.3	–	3.0	7.4	–	–	–	–
60.0	100.0	–	–	–	–	5.1	–	2.3	14.6	–	–	–	–
63.0	52.0	–	–	–	0.0	0.0	2.4	0.0	0.0	–	–	–	–
63.0	55.0	–	–	–	2.3	0.0	5.7	0.0	–	–	–	–	–
63.0	60.0	–	–	–	–	–	2.9	–	–	–	–	–	–
63.0	65.0	–	–	–	–	0.0	5.4	–	–	–	–	–	–
67.0	55.0	–	–	–	0.0	–	2.6	20.4	0.0	–	–	–	–
67.0	60.0	–	–	–	–	–	17.8	6.4	–	–	–	–	–
67.0	65.0	–	–	–	–	–	5.6	5.9	0.0	–	–	–	–
70.0	51.0	–	–	–	5.7	0.0	6.6	12.7	–	–	–	–	–
70.0	55.0	–	–	–	3.0	–	5.8	5.2	0.0	–	–	–	–
70.0	60.0	–	–	–	0.0	–	142.0	5.6	0.0	–	–	–	–
70.0	65.0	–	–	–	–	5.8	12.4	–	–	–	–	–	–
70.0	70.0	–	–	–	5.0	5.3	20.6	29.6	0.0	–	–	–	–
70.0	80.0	–	–	–	–	0.0	17.3	28.1	5.5	–	–	–	–
70.0	90.0	–	–	–	6.2	0.0	5.7	–	–	–	–	–	–
70.0	100.0	–	–	–	–	0.0	10.6	–	–	–	–	–	–
73.0	50.0	–	–	–	4.4	–	6.9	0.0	0.0	–	–	–	–
73.0	55.0	–	–	–	–	–	27.7	8.0	–	–	–	–	–
73.0	60.0	–	–	–	5.8	–	4.0	0.0	0.0	–	–	–	–
77.0	50.0	–	–	–	0.0	0.0	0.0	13.8	0.0	–	–	–	–
77.0	55.0	–	–	–	8.5	0.0	12.1	0.0	0.0	–	–	–	–
77.0	60.0	–	–	–	–	0.0	3.1	9.8	–	–	–	–	–
77.0	65.0	–	–	–	10.1	–	13.6	3.1	0.0	–	–	–	–
80.0	51.0	0.0	0.0	0.0	11.6	0.0	0.0	0.0	0.0	–	–	–	–
80.0	55.0	–	0.0	0.0	24.2	6.6	0.0	0.0	0.0	–	–	–	–
80.0	60.0	0.0	0.0	27.8	0.0	6.9	0.0	70.2	7.4	–	–	–	–
80.0	65.0	–	–	–	–	–	20.3	–	–	–	–	–	–
80.0	70.0	0.0	36.7	18.2	0.0	6.3	2.7	11.2	11.7	–	–	–	–
80.0	80.0	4.9	0.0	7.0	9.9	0.0	5.8	2.9	0.0	–	–	–	–

TABLE 4. (cont.)

Tarletonbeania crenularis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 90.0	0.0	–	2.7	5.5	0.0	0.0	0.0	2.3	–	–	–	–
80.0 100.0	0.0	–	12.3	0.0	0.0	0.0	0.0	4.7	–	–	–	–
83.0 43.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0 55.0	0.0	3.4	0.0	33.4	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0
83.0 60.0	0.0	0.0	29.4	12.0	8.1	22.0	6.8	7.3	–	–	0.0	0.0
83.0 70.0	–	–	–	12.0	2.4	25.6	–	–	–	–	–	–
83.0 80.0	–	–	–	5.4	3.3	30.4	–	–	–	–	–	–
83.0 90.0	–	–	–	11.6	0.0	0.0	–	–	–	–	–	–
85.0 39.0	0.0	0.0	2.2	0.0	0.0	12.4	0.0	0.0	0.0	–	0.0	0.0
85.0 40.0	4.3	3.8	3.3	2.8	2.2	0.0	2.6	0.0	0.0	–	0.0	0.0
85.0 45.0	0.0	0.0	0.0	3.0	0.0	0.0	6.1	0.0	0.0	–	0.0	0.0
85.0 50.0	0.0	15.8	5.8	0.0	0.0	0.0	0.0	0.0	2.6	–	0.0	0.0
85.0 55.0	6.8	15.6	18.2	5.7	8.6	6.0	0.0	0.0	0.0	–	1.9	–
85.0 60.0	0.0	28.0	42.6	12.4	5.7	0.0	52.0	0.0	–	–	0.0	–
87.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	–	3.6	0.0
87.0 40.0	0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0 45.0	–	0.0	3.0	4.5	0.0	0.0	0.0	2.8	0.0	–	0.0	0.0
87.0 50.0	–	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	0.0
87.0 55.0	2.5	0.0	0.0	25.1	9.8	0.0	11.7	3.0	0.0	–	0.0	0.0
87.0 60.0	0.0	6.5	–	3.8	4.4	6.9	0.0	0.0	2.1	–	2.5	–
87.0 70.0	–	–	–	5.1	0.0	13.4	–	–	–	–	–	–
87.0 80.0	–	–	–	11.0	0.0	–	–	–	–	–	–	–
87.0 90.0	–	–	–	14.9	2.6	0.0	–	–	–	–	–	–
90.0 28.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	–	–	3.1	–	0.0
90.0 30.0	5.0	0.0	5.8	0.0	0.0	0.0	0.0	5.1	–	0.0	–	0.0
90.0 37.0	0.0	0.0	0.0	1.8	–	0.0	5.5	0.0	–	0.0	–	0.0
90.0 41.0	–	–	–	–	2.4	–	–	–	–	–	–	–
90.0 45.0	0.0	0.0	0.0	5.7	0.0	0.0	5.6	0.0	–	0.0	–	0.0
90.0 50.0	–	–	9.6	–	0.0	0.0	6.5	0.0	–	0.0	–	0.0
90.0 53.0	12.7	6.5	–	–	–	–	–	–	–	–	–	–
90.0 55.0	–	–	0.0	38.4	2.7	6.3	0.0	6.4	–	0.0	–	0.0
90.0 58.0	–	–	–	–	–	–	–	17.8	–	–	–	–
90.0 60.0	8.4	0.0	11.4	0.0	0.0	0.0	27.5	0.0	–	2.9	–	0.0
90.0 65.0	–	–	–	–	–	6.8	–	–	–	–	–	–
90.0 70.0	0.0	2.5	6.8	27.4	1.9	–	0.0	22.2	–	0.0	–	–
90.0 80.0	0.0	0.0	12.1	3.2	7.5	2.9	–	–	–	–	–	–
90.0 90.0	0.0	–	0.0	2.8	2.5	0.0	–	–	–	–	–	–
90.0 100.0	–	–	–	0.0	2.8	–	–	–	–	–	–	–
90.0 120.0	–	–	–	6.2	0.0	–	–	–	–	–	–	–
93.0 30.0	0.0	0.0	0.0	5.6	3.8	0.0	3.0	0.0	–	0.0	–	0.0
93.0 35.0	–	–	–	0.0	4.2	0.0	0.0	0.0	–	–	–	–
93.0 40.0	0.0	0.0	–	0.0	0.0	3.3	0.0	2.7	–	0.0	–	0.0
93.0 50.0	0.0	0.0	3.2	6.9	10.6	0.0	0.0	5.8	–	0.0	–	0.0
93.0 55.0	–	–	–	6.5	–	0.0	–	–	–	–	–	–
93.0 60.0	–	0.0	–	5.0	0.0	6.1	–	–	–	–	–	–
93.0 65.0	–	–	–	–	–	9.2	–	–	–	–	–	–

TABLE 4. (cont.)

Tarletonbeania crenularis (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	70.0	–	–	–	3.1	–	5.3	–	–	–	–	–	–
93.0	90.0	–	–	–	6.7	–	0.0	–	–	–	–	–	–
97.0	35.0	–	–	0.0	0.0	0.0	6.9	0.0	4.7	–	0.0	–	0.0
97.0	40.0	0.0	0.0	0.0	3.1	2.8	0.0	8.5	0.0	–	0.0	–	0.0
97.0	50.0	0.0	0.0	–	6.4	0.0	0.0	0.0	0.0	–	0.0	–	0.0
97.0	60.0	0.0	0.0	–	3.2	0.0	5.6	–	–	–	–	–	–
100.0	29.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	–	0.0	–	0.0
100.0	35.0	–	–	–	0.0	0.0	4.1	0.0	0.0	–	–	–	–
100.0	40.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	45.0	–	–	–	0.0	6.3	0.0	0.0	–	–	–	–	–
100.0	50.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	3.1	–	0.0	–	0.0
100.0	55.0	–	–	–	3.5	0.0	0.0	–	0.0	–	–	–	–
100.0	60.0	0.0	0.0	0.0	0.0	6.1	0.0	3.1	0.0	–	0.0	–	0.0
100.0	70.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	80.0	0.0	0.0	6.0	2.7	0.0	0.0	0.0	0.0	–	–	–	0.0
100.0	90.0	0.0	–	–	2.8	0.0	0.0	–	–	–	–	–	–
103.0	35.0	–	–	–	0.0	0.0	6.0	0.0	0.0	–	0.0	–	0.0
103.0	40.0	–	–	–	0.0	3.0	0.0	0.0	0.0	–	0.0	–	0.0
103.0	45.0	–	–	–	2.5	7.8	0.0	–	–	–	–	–	–
103.0	55.0	–	–	–	3.0	0.0	0.0	–	–	–	–	–	–
103.0	60.0	–	–	–	3.1	0.0	0.0	–	–	–	–	–	–
110.0	35.0	–	0.0	0.0	9.6	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	45.0	–	–	–	3.7	0.0	0.0	–	–	–	–	–	–
113.0	35.0	–	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	–	0.0
113.0	45.0	–	–	0.0	0.0	3.0	0.0	–	–	–	–	–	–
117.0	50.0	0.0	0.0	0.0	0.0	8.3	0.0	–	–	–	–	–	–
120.0	30.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	–	0.0

Synodus spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	35.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	7.0	–	0.0
117.0	30.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	–	0.0
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	1.2	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	40.5	–	0.0
120.0	31.0	–	–	–	–	–	–	–	–	7.0	–	–	–
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	17.1	–	0.0
121.0	30.0	–	–	–	–	–	–	–	–	1.4	–	–	–
121.0	34.0	–	–	–	–	–	–	–	–	2.9	–	–	–
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0	–	368.3
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	19.4	–	475.8
123.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	6.7
127.0	34.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	4.5	–	25.4
130.0	30.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	39.2	–	110.3
130.0	35.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	10.6	–	28.4

TABLE 4. (cont.)

Synodus spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	8.2	–	0.0
133.0	25.0	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	16.0	–	133.2
133.0	30.0	41.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	40.3	–	0.0
133.0	40.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
137.0	23.0	2.1	17.7	0.0	0.0	0.0	0.0	0.0	0.0	–	10.0	–	53.5
137.0	30.0	4.4	–	8.0	0.0	0.0	0.0	0.0	0.0	–	–	–	0.0
140.0	30.0	2.0	–	–	–	–	–	–	–	–	–	–	–
140.0	40.0	2.7	–	–	–	–	–	–	–	–	–	–	–
143.0	26.0	2.5	–	–	–	–	–	–	–	–	–	–	–
143.0	30.0	10.6	–	–	–	–	–	–	–	–	–	–	–
143.0	35.0	4.6	–	–	–	–	–	–	–	–	–	–	–
147.0	20.0	6.0	–	–	–	–	–	–	–	–	–	–	–
150.0	25.0	2.7	–	–	–	–	–	–	–	–	–	–	–
150.0	30.0	10.9	–	–	–	–	–	–	–	–	–	–	–
150.0	40.0	2.4	–	–	–	–	–	–	–	–	–	–	–

Merluccius productus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	70.0	–	–	–	0.0	2.6	0.0	0.0	0.0	–	–	–	–
70.0	90.0	–	–	–	6.2	0.0	0.0	–	–	–	–	–	–
70.0	100.0	–	–	–	–	0.0	10.6	–	–	–	–	–	–
80.0	51.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	60.0	0.0	0.0	13.9	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	70.0	0.0	4950.7	7.3	5.6	0.0	0.0	0.0	0.0	–	–	–	–
80.0	80.0	0.0	130.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	90.0	0.0	–	13.7	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	100.0	0.0	–	108.2	0.0	0.0	0.0	0.0	0.0	–	–	–	–
81.8	46.0	–	–	–	–	–	–	–	–	0.0	–	2.9	7.3
82.3	47.0	–	–	–	–	–	–	–	–	0.0	2.9	0.0	24.6
83.0	40.0	–	–	–	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.2	47.0
83.0	43.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	2.7
83.0	48.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	29.9
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	10.6
83.0	55.0	5.6	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0
83.0	60.0	0.0	0.0	81.0	12.0	0.0	0.0	0.0	0.0	–	–	0.0	0.0
83.0	65.0	–	–	–	–	–	15.3	–	–	–	–	–	–
83.0	80.0	–	–	–	2.7	0.0	6.1	–	–	–	–	–	–
83.0	90.0	–	–	–	11.6	0.0	0.0	–	–	–	–	–	–
85.0	39.0	0.0	9.6	15.3	3.9	0.0	0.0	0.0	0.0	0.0	–	2.0	0.0
85.0	40.0	0.0	7.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	–	6.3	13.4
85.0	45.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	7.4
85.0	50.0	0.0	7.9	14.5	0.0	1.2	0.0	0.0	0.0	0.0	–	7.9	0.0
85.0	55.0	0.0	0.0	24.3	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–
85.0	60.0	0.0	0.0	212.8	0.0	0.0	0.0	0.0	0.0	–	–	0.0	–

TABLE 4. (cont.)

Merluccius productus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	35.0	62.8	0.0	11.8	0.0	1.6	0.0	0.0	0.0	0.0	–	10.8	27.1
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	5.0
87.0	45.0	–	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	2.5
87.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	2.4
87.0	60.0	0.0	0.0	–	0.0	1.5	0.0	0.0	0.0	0.0	–	0.0	–
87.0	65.0	–	–	–	–	–	9.4	–	–	–	–	–	–
87.0	80.0	–	–	–	2.7	0.0	–	–	–	–	–	–	–
90.0	28.0	0.0	0.0	5.9	9.6	2.7	0.0	0.0	–	–	3.1	–	17.7
90.0	30.0	0.0	0.0	2.9	5.0	0.0	0.0	3.0	0.0	–	0.0	–	4.6
90.0	37.0	0.0	0.0	8.9	0.0	–	0.0	0.0	0.0	–	0.0	–	2.6
90.0	45.0	0.0	190.4	3.4	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
90.0	50.0	–	–	6.4	–	0.0	0.0	0.0	0.0	–	0.0	–	0.0
90.0	53.0	0.0	2.2	–	–	–	–	–	–	–	–	–	–
90.0	55.0	–	–	38.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
90.0	60.0	0.0	0.0	220.4	23.6	0.0	6.5	0.0	0.0	–	0.0	–	0.0
90.0	70.0	0.0	0.0	142.0	6.8	0.0	–	0.0	0.0	–	0.0	–	–
90.0	80.0	0.0	0.0	0.0	12.6	0.0	2.9	–	–	–	–	–	–
90.0	90.0	0.0	–	22.1	5.7	0.0	17.5	–	–	–	–	–	–
90.0	100.0	–	–	–	9.7	2.8	–	–	–	–	–	–	–
90.0	110.0	–	–	–	14.6	28.6	–	–	–	–	–	–	–
90.0	120.0	–	–	–	0.0	36.6	–	–	–	–	–	–	–
90.0	130.0	–	–	–	0.0	3.1	–	–	–	–	–	–	–
93.0	27.0	4.5	26.7	–	18.6	0.0	0.0	0.0	0.0	–	0.0	–	21.1
93.0	30.0	2.8	86.0	59.4	5.6	0.0	0.0	3.0	0.0	–	0.0	–	0.0
93.0	40.0	0.0	48.0	–	2.9	0.0	0.0	0.0	0.0	–	0.0	–	0.0
93.0	50.0	0.0	32.9	92.5	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
93.0	55.0	–	–	–	19.5	–	0.0	–	–	–	–	–	–
93.0	60.0	–	0.0	–	7.5	0.0	6.1	–	–	–	–	–	–
93.0	65.0	–	–	–	–	–	9.2	–	–	–	–	–	–
93.0	70.0	–	–	–	15.7	–	0.0	–	–	–	–	–	–
93.0	90.0	–	–	–	0.0	–	3.2	–	–	–	–	–	–
97.0	30.0	0.0	12.4	11.6	2.8	0.0	0.0	0.0	0.0	–	0.0	–	31.3
97.0	32.0	3.4	5.7	–	–	–	–	–	–	–	–	–	–
97.0	35.0	–	–	70.1	9.7	0.0	0.0	0.0	0.0	–	0.0	–	0.0
97.0	40.0	0.0	0.0	12.5	6.2	0.0	0.0	0.0	0.0	–	0.0	–	0.0
97.0	50.0	0.0	53.0	–	0.0	0.0	6.8	0.0	0.0	–	0.0	–	0.0
97.0	55.0	–	–	–	17.2	–	–	–	–	–	–	–	–
97.0	60.0	0.0	898.8	–	15.8	6.6	0.0	–	–	–	–	–	–
97.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
97.0	70.0	–	–	–	9.0	0.0	6.0	–	–	–	–	–	–
100.0	29.0	7.9	31.0	30.5	8.4	0.0	0.0	0.0	0.0	–	0.0	–	8.9
100.0	30.0	8.9	0.0	22.2	12.5	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	35.0	–	–	–	71.5	0.0	0.0	0.0	0.0	–	–	–	–
100.0	40.0	0.0	231.8	343.2	55.0	3.1	2.8	0.0	0.0	–	0.0	–	2.3
100.0	45.0	–	–	–	6.8	0.0	0.0	0.0	–	–	–	–	–
100.0	50.0	0.0	1052.7	94.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0

TABLE 4. (cont.)

Merluccius productus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	55.0	–	–	–	3.5	0.0	4.6	–	0.0	–	–	–	–
100.0	60.0	0.0	1932.6	107.2	8.5	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	65.0	–	–	–	–	–	6.6	–	–	–	–	–	–
100.0	70.0	0.0	3908.8	722.1	33.7	6.4	0.0	0.0	0.0	–	0.0	–	0.0
100.0	80.0	0.0	2401.1	384.0	5.4	0.0	0.0	0.0	0.0	–	–	–	0.0
100.0	90.0	0.0	–	–	38.6	0.0	0.0	–	–	–	–	–	–
103.0	30.0	–	–	–	–	0.0	0.0	0.0	0.0	–	0.0	–	9.6
103.0	35.0	–	–	–	30.7	0.0	0.0	0.0	0.0	–	0.0	–	2.8
103.0	40.0	–	–	–	10.9	14.9	0.0	2.9	0.0	–	0.0	–	0.0
103.0	45.0	–	–	–	35.0	57.2	0.0	–	–	–	–	–	–
103.0	50.0	–	–	–	67.8	232.5	0.0	–	–	–	–	–	–
103.0	55.0	–	–	–	48.5	0.0	0.0	–	–	–	–	–	–
103.0	60.0	–	–	–	80.9	11.4	0.0	–	–	–	–	–	–
103.0	70.0	–	–	–	2.9	35.9	0.0	–	–	–	–	–	–
103.0	80.0	–	–	–	10.6	0.0	0.0	–	–	–	–	–	–
105.0	32.0	29.7	38.4	74.8	–	–	–	–	–	–	–	–	–
105.0	35.0	0.0	605.3	121.4	–	–	–	–	–	–	–	–	–
105.0	40.0	0.0	541.8	55.4	–	–	–	–	–	–	–	–	–
105.0	50.0	0.0	22.9	11.1	–	–	–	–	–	–	–	–	–
105.0	60.0	0.0	3159.0	0.0	–	–	–	–	–	–	–	–	–
105.0	70.0	0.0	–	16.3	–	–	–	–	–	–	–	–	–
105.0	80.0	0.0	–	367.0	–	–	–	–	–	–	–	–	–
107.0	32.0	–	–	–	3.1	0.0	0.0	0.0	0.0	–	0.0	–	0.0
107.0	35.0	–	–	–	10.8	0.0	0.0	0.0	0.0	–	0.0	–	0.0
107.0	40.0	–	–	–	30.9	7.2	0.0	0.0	0.0	–	0.0	–	0.0
107.0	45.0	–	–	–	30.4	43.0	4.7	–	–	–	–	–	–
107.0	50.0	–	–	–	3.1	37.2	0.0	–	–	–	–	–	–
107.0	55.0	–	–	–	3.4	20.3	0.0	–	–	–	–	–	–
110.0	33.0	–	130.2	436.8	35.6	–	0.0	0.0	0.0	–	0.0	–	7.6
110.0	35.0	–	5.2	293.8	48.2	47.6	0.0	0.0	0.0	–	0.0	–	2.3
110.0	40.0	–	0.0	106.4	75.2	71.3	0.0	0.0	0.0	–	0.0	–	0.0
110.0	45.0	–	–	–	14.9	2.6	0.0	–	–	–	–	–	–
110.0	50.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	–	0.0	–	0.0
110.0	55.0	–	–	–	0.0	0.0	2.9	–	–	–	–	–	–
110.0	60.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
113.0	30.0	–	33.8	0.0	1.6	0.0	0.0	0.0	0.0	2.2	0.0	–	0.0
113.0	35.0	–	112.1	376.7	7.2	5.4	0.0	0.0	0.0	0.0	0.0	–	0.0
113.0	40.0	–	32.2	296.4	12.9	9.4	0.0	0.0	0.0	–	0.0	–	0.0
113.0	45.0	–	–	42.8	17.6	3.0	0.0	–	–	–	–	–	–
113.0	50.0	2.8	0.0	4.5	101.9	0.0	3.0	–	–	–	–	–	–
113.0	55.0	–	–	15.8	0.0	0.0	0.0	–	–	–	–	–	–
113.0	60.0	–	33.3	16.8	0.0	0.0	4.7	–	–	–	–	–	–
113.0	70.0	–	–	–	7.0	0.0	0.0	–	–	–	–	–	–
117.0	26.0	–	11.9	0.0	1.1	0.0	2.6	0.0	0.0	0.0	0.0	–	0.0
117.0	30.0	–	23.8	0.0	1.0	0.0	0.0	0.0	6.4	3.6	2.7	–	1.9

TABLE 4. (cont.)

Merluccius productus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	35.0	-	297.0	2.9	5.8	0.0	5.4	0.0	2.4	0.0	0.0	-	-
117.0	40.0	22.0	20.6	44.8	20.8	0.0	0.0	0.0	0.0	8.8	0.0	-	-
117.0	45.0	-	-	2.7	30.3	5.8	0.0	-	-	-	-	-	-
117.0	50.0	2.8	265.0	3.1	9.9	5.5	0.0	-	-	-	-	-	-
117.0	55.0	-	-	6.0	16.0	0.0	0.0	-	-	-	-	-	-
117.0	60.0	-	19.5	3.0	1.3	0.0	0.0	-	-	-	-	-	-
118.5	30.0	-	-	-	-	-	-	-	-	2.2	-	-	-
120.0	30.0	0.0	12.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
120.0	35.0	13.6	8.0	0.0	5.8	0.0	0.0	0.0	3.1	0.0	0.0	-	0.0
120.0	40.0	-	-	82.4	8.4	0.0	0.0	-	-	-	-	-	-
120.0	45.0	94.7	186.9	17.0	16.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	50.0	0.0	31.8	17.9	16.9	0.0	2.4	0.0	0.0	-	0.0	-	0.0
120.0	55.0	-	-	2.9	15.7	0.0	0.0	-	-	-	-	-	-
120.0	60.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	70.0	0.0	3.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	6.8	2.2	241.8	5.5	0.0	0.0	-	0.0	-	0.0	-	0.0
123.0	40.0	-	11.0	22.0	12.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	45.0	-	48.3	21.6	27.5	4.8	0.0	0.0	0.0	-	-	-	-
123.0	50.0	-	42.6	66.2	5.7	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	55.0	-	-	11.4	6.9	0.0	0.0	-	-	-	-	-	-
123.0	60.0	-	-	4.1	0.0	0.0	0.0	-	-	-	-	-	-
127.0	34.0	0.0	0.0	127.0	1.6	0.0	0.0	0.0	5.6	-	0.0	-	0.0
127.0	40.0	-	16.9	268.6	0.0	5.2	0.0	2.4	0.0	-	0.0	-	0.0
127.0	45.0	-	10.9	161.5	5.6	0.0	0.0	0.0	0.0	-	-	-	-
127.0	50.0	-	0.0	6.9	29.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	55.0	-	-	0.0	2.4	0.0	0.0	-	-	-	-	-	-
130.0	30.0	-	2.7	107.3	22.2	0.0	0.0	-	0.0	-	0.0	-	0.0
130.0	35.0	2.2	206.7	223.1	2.6	0.0	0.0	8.5	0.0	-	0.0	-	0.0
130.0	40.0	0.0	30.5	272.3	32.8	2.7	0.0	0.0	0.0	-	0.0	-	0.0
130.0	45.0	-	0.0	31.2	0.0	3.4	0.0	0.0	0.0	-	-	-	-
130.0	50.0	-	0.0	5.9	54.6	2.6	0.0	0.0	0.0	-	0.0	-	0.0
130.0	55.0	-	-	1.6	4.4	0.0	0.0	-	-	-	-	-	-
130.0	60.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	-	-	-	0.0
133.0	25.0	0.0	6.5	10.8	17.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	30.0	0.0	159.8	35.2	6.4	4.3	0.0	0.0	0.0	-	6.2	-	1.8
133.0	35.0	-	-	34.5	22.3	0.0	0.0	0.0	0.0	-	-	-	-
133.0	40.0	0.0	99.4	4.5	22.5	2.4	3.7	0.0	0.0	-	0.0	-	0.0
133.0	45.0	-	-	4.3	0.0	0.0	0.0	-	-	-	-	-	-
133.0	50.0	0.0	-	4.4	0.0	0.0	0.0	-	-	-	-	-	-
133.0	55.0	-	-	0.0	0.0	2.0	-	-	-	-	-	-	-
133.0	60.0	-	-	0.0	0.0	5.5	-	-	-	-	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	-	0.0	-	0.0
137.0	30.0	26.5	-	19.5	14.9	4.8	0.0	0.0	0.0	-	-	-	0.0
137.0	35.0	-	-	36.8	5.9	0.0	0.0	-	-	-	-	-	-
137.0	40.0	0.0	-	34.2	0.0	0.0	0.0	-	-	-	-	-	-
137.0	45.0	-	-	6.0	0.0	0.0	0.0	-	-	-	-	-	-

TABLE 4, (cont.)

Merluccius productus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	50.0	0.0	–	1.3	0.0	0.0	0.0	–	–	–	–	–	–
137.0	55.0	–	–	2.6	0.0	0.0	–	–	–	–	–	–	–
140.0	30.0	45.8	–	–	–	–	–	–	–	–	–	–	–
140.0	35.0	164.1	–	–	–	–	–	–	–	–	–	–	–
140.0	40.0	18.6	–	–	–	–	–	–	–	–	–	–	–
143.0	26.0	1079.4	–	–	–	–	–	–	–	–	–	–	–
143.0	30.0	7511.8	–	–	–	–	–	–	–	–	–	–	–
143.0	35.0	39.1	–	–	–	–	–	–	–	–	–	–	–
147.0	25.0	5.2	–	–	–	–	–	–	–	–	–	–	–
147.0	30.0	2.4	–	–	–	–	–	–	–	–	–	–	–

Macrouridae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	–	–	–	3.4	0.0	0.0	0.0	0.0	–	–	–	–
117.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	–	–
127.0	45.0	–	0.0	2.7	0.0	0.0	0.0	0.0	0.0	–	–	–	–
130.0	40.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0	45.0	–	0.0	1.7	0.0	0.0	0.0	0.0	0.0	–	–	–	–
133.0	40.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	–	0.0	–	0.0

Ophidiiformes

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	51.0	–	–	–	0.0	0.0	0.0	3.2	–	–	–	–	–
73.0	60.0	–	–	–	0.0	–	0.0	3.2	0.0	–	–	–	–
77.0	55.0	–	–	–	0.0	0.0	6.0	0.0	0.0	–	–	–	–
80.0	55.0	–	0.0	0.0	0.0	3.3	0.0	0.0	0.0	–	–	–	–
80.0	60.0	0.0	0.0	0.0	0.0	0.0	5.3	23.4	0.0	–	–	–	–
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0
83.0	48.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	51.0	0.0	4.1	16.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	55.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	65.0	–	–	–	–	–	7.7	–	–	–	–	–	–
85.0	45.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	50.0	0.0	0.0	0.0	3.9	1.2	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	55.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	–	0.0	–
87.0	35.0	0.0	0.0	2.9	0.0	3.3	0.0	0.0	0.0	0.0	–	0.0	0.0
90.0	28.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	–	–	0.0	–	0.0
90.0	30.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
90.0	35.0	–	–	–	–	8.4	–	–	–	–	–	–	–
90.0	55.0	–	–	0.0	0.0	10.8	6.3	0.0	0.0	–	0.0	–	0.0
93.0	30.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	–	0.0	–	0.0
93.0	35.0	–	–	–	0.0	4.2	0.0	0.0	0.0	–	–	–	–

TABLE 4. (cont.)

Ophidiiformes (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.7	–	0.0
100.0	65.0	–	–	–	–	–	6.6	–	–	–	–	–	–
103.0	80.0	–	–	–	2.6	0.0	0.0	–	–	–	–	–	–
107.0	32.0	–	–	–	3.1	0.0	0.0	0.0	0.0	–	0.0	–	0.0
107.0	35.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	3.5	–	0.0
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	–	–
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.6	–	0.0
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0	–	3.0
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	16.2	–	15.5
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	20.4	–	2.3
127.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.9
130.0	30.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	45.8	–	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	21.2	–	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	4.1	–	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	35.2	–	5.6
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	–	56.8	–	13.4
147.0	30.0	2.4	–	–	–	–	–	–	–	–	–	–	–

Brosmophycis marginata

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0
83.0	51.0	0.0	0.0	0.0	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.0	45.0	–	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0	50.0	–	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	–	–	0.0
87.0	55.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	–	0.0	0.0
90.0	80.0	0.0	0.0	0.0	0.0	0.0	2.9	–	–	–	–	–	–
93.0	55.0	–	–	–	0.0	–	6.0	–	–	–	–	–	–
107.0	32.0	–	–	–	0.0	3.1	0.0	0.0	0.0	–	0.0	–	0.0

Carapidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
150.0	25.0	2.7	–	–	–	–	–	–	–	–	–	–	–

Ophidion scrippsae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	1.2	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	8.1	–	0.0
120.0	31.0	–	–	–	–	–	–	–	–	2.3	–	–	–
130.0	35.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	–	0.0	–	0.0

TABLE 4. (cont.)

Porichthys spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	30.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	–	0.0	–	0.0

Exocoetidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	–	0.0	–	0.0
113.0	35.0	–	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
123.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	3.1	–	0.0	–	0.0
130.0	45.0	–	0.0	0.0	0.0	0.0	0.0	0.0	5.9	–	–	–	–
130.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	4.0	–	0.0	–	0.0
130.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	–	–	–	0.0

Cololabis saira

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	51.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	120.0	–	–	–	0.0	4.8	–	–	–	–	–	–	–
83.0	80.0	–	–	–	0.0	0.0	6.1	–	–	–	–	–	–
85.0	39.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	50.0	3.1	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	55.0	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–
87.0	35.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0	50.0	–	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	–	–	0.0
87.0	55.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0	60.0	0.0	0.0	–	3.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–
90.0	28.0	0.0	4.9	3.0	0.0	0.0	0.0	0.0	–	–	3.1	–	0.0
90.0	30.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
90.0	37.0	0.0	0.0	0.0	0.0	–	0.0	5.5	0.0	–	0.0	–	0.0
93.0	30.0	0.0	0.0	3.0	0.0	0.0	5.3	0.0	0.0	–	0.0	–	0.0
97.0	30.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	60.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	–	0.0	–	0.0
100.0	90.0	0.0	–	–	0.0	0.0	28.4	–	–	–	–	–	–
103.0	35.0	–	–	–	0.0	2.9	0.0	0.0	0.0	–	0.0	–	0.0
103.0	40.0	–	–	–	0.0	0.0	24.3	0.0	0.0	–	0.0	–	0.0
107.0	80.0	–	–	–	2.8	0.0	–	–	–	–	–	–	–
110.0	50.0	2.8	0.0	0.0	0.0	0.0	2.8	0.0	0.0	–	0.0	–	0.0
110.0	55.0	–	–	–	0.0	0.0	2.9	–	–	–	–	–	–
110.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
117.0	26.0	–	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
117.0	35.0	–	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	–	–
117.0	55.0	–	–	0.0	1.5	0.0	0.0	–	–	–	–	–	–
117.0	60.0	–	3.3	0.0	0.0	0.0	0.0	–	–	–	–	–	–
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.7
120.0	50.0	0.0	0.0	0.0	1.4	5.9	0.0	0.0	0.0	–	0.0	–	0.0

TABLE 4. (cont.)

Cololabis saira (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	55.0	–	–	0.0	0.0	2.7	0.0	–	–	–	–	–	–
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0	–	3.0
123.0	45.0	–	0.0	0.0	0.0	0.0	3.0	0.0	0.0	–	–	–	–
127.0	40.0	–	0.0	0.0	0.0	5.2	0.0	0.0	0.0	–	0.0	–	0.0
127.0	45.0	–	0.0	0.0	0.0	0.0	0.0	2.6	0.0	–	–	–	–
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	1.9
133.0	30.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	–	0.0	–	0.0

Atherinidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
85.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	–	0.0	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	–	0.0	0.0
90.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	–	–	0.0	–	0.0

Trachipteridae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0	55.0	–	–	–	0.0	0.0	2.9	0.0	–	–	–	–	–
67.0	65.0	–	–	–	–	–	5.6	0.0	0.0	–	–	–	–
70.0	65.0	–	–	–	–	0.0	6.2	–	–	–	–	–	–
70.0	90.0	–	–	–	0.0	0.0	2.8	–	–	–	–	–	–
80.0	70.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	–	–	–	–
83.0	51.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	65.0	–	–	–	–	–	7.7	–	–	–	–	–	–
83.0	80.0	–	–	–	2.7	0.0	0.0	–	–	–	–	–	–
85.0	60.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	0.0	–	–	0.0	–
87.0	65.0	–	–	–	–	–	4.7	–	–	–	–	–	–
87.0	80.0	–	–	–	0.0	2.3	–	–	–	–	–	–	–
87.0	90.0	–	–	–	0.0	5.3	0.0	–	–	–	–	–	–
90.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	–	–	0.0	–	0.0
90.0	55.0	–	–	0.0	0.0	2.7	0.0	0.0	0.0	–	0.0	–	0.0
90.0	70.0	0.0	0.0	0.0	2.3	1.9	–	0.0	0.0	–	0.0	–	–
93.0	60.0	–	0.0	–	2.5	0.0	0.0	–	–	–	–	–	–
93.0	90.0	–	–	–	0.0	–	3.2	–	–	–	–	–	–
97.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
97.0	70.0	–	–	–	3.0	0.0	0.0	–	–	–	–	–	–
100.0	70.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	–	0.0	–	0.0
103.0	60.0	–	–	–	3.1	0.0	0.0	–	–	–	–	–	–
105.0	35.0	0.0	0.0	2.1	–	–	–	–	–	–	–	–	–
107.0	50.0	–	–	–	0.0	3.1	0.0	–	–	–	–	–	–
110.0	45.0	–	–	–	0.0	5.2	0.0	–	–	–	–	–	–
110.0	50.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	–	0.0	–	0.0
113.0	50.0	0.0	0.0	0.0	0.0	9.3	0.0	–	–	–	–	–	–

TABLE 4. (cont.)

Trachipteridae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0 26.0	-	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0

Melamphaes spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 60.0	-	-	-	0.0	0.0	4.7	0.0	0.0	-	-	-	-
70.0 65.0	-	-	-	-	5.8	0.0	-	-	-	-	-	-
70.0 70.0	-	-	-	5.0	7.9	0.0	0.0	0.0	-	-	-	-
70.0 90.0	-	-	-	0.0	0.0	2.8	-	-	-	-	-	-
70.0 100.0	-	-	-	-	2.1	0.0	-	-	-	-	-	-
80.0 51.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	-	-	-	-
80.0 60.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	-	-	-	-
80.0 70.0	2.8	2.2	0.0	0.0	0.0	0.0	0.0	8.8	-	-	-	-
80.0 80.0	0.0	0.0	3.5	0.0	0.0	2.9	0.0	0.0	-	-	-	-
80.0 90.0	0.0	-	2.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-
80.0 100.0	0.0	-	7.4	2.3	0.0	0.0	0.0	2.3	-	-	-	-
80.0 130.0	-	-	-	8.4	0.0	-	-	-	-	-	-	-
80.0 145.0	-	-	-	0.0	2.7	-	-	-	-	-	-	-
80.0 160.0	-	-	-	2.6	0.0	-	-	-	-	-	-	-
83.0 70.0	-	-	-	14.9	0.0	0.0	-	-	-	-	-	-
83.0 80.0	-	-	-	2.7	0.0	0.0	-	-	-	-	-	-
83.0 90.0	-	-	-	0.0	0.0	3.1	-	-	-	-	-	-
85.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	-	0.0	0.0
87.0 55.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
87.0 80.0	-	-	-	2.7	0.0	-	-	-	-	-	-	-
87.0 90.0	-	-	-	0.0	2.6	0.0	-	-	-	-	-	-
90.0 70.0	0.0	2.5	6.8	9.1	7.5	-	0.0	0.0	-	0.0	-	-
90.0 80.0	0.0	0.0	0.0	3.2	0.0	0.0	-	-	-	-	-	-
90.0 90.0	0.0	-	0.0	0.0	0.0	3.5	-	-	-	-	-	-
90.0 120.0	-	-	-	3.1	2.4	-	-	-	-	-	-	-
90.0 130.0	-	-	-	0.0	3.1	-	-	-	-	-	-	-
90.0 139.0	-	-	-	-	2.8	-	-	-	-	-	-	-
90.0 145.0	-	-	-	2.5	0.0	-	-	-	-	-	-	-
90.0 160.0	-	-	-	2.6	7.6	-	-	-	-	-	-	-
93.0 35.0	-	-	-	0.0	0.0	3.3	0.0	0.0	-	-	-	-
93.0 55.0	-	-	-	16.3	-	0.0	-	-	-	-	-	-
93.0 80.0	-	-	-	7.3	-	0.0	-	-	-	-	-	-
97.0 35.0	-	-	0.0	3.2	0.0	6.9	0.0	0.0	-	0.0	-	0.0
97.0 40.0	3.0	0.0	0.0	3.1	0.0	0.0	2.8	0.0	-	0.0	-	0.0
97.0 45.0	-	-	-	0.0	0.0	0.0	3.3	-	-	-	-	-
97.0 50.0	0.0	0.0	-	6.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
97.0 60.0	0.0	0.0	-	0.0	0.0	22.5	-	-	-	-	-	-
97.0 65.0	-	-	-	-	-	8.5	-	-	-	-	-	-
97.0 70.0	-	-	-	3.0	5.6	6.0	-	-	-	-	-	-
100.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Melamphaes spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	35.0	–	–	–	3.1	0.0	0.0	0.0	0.0	–	–	–	–
100.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	7.2	–	0.0	–	0.0
100.0	45.0	–	–	–	3.4	0.0	0.0	3.3	–	–	–	–	–
100.0	50.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	14.2	–	0.0	–	0.0
100.0	70.0	3.5	0.0	5.8	0.0	6.4	4.7	0.0	0.0	–	0.0	–	0.0
100.0	80.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	0.0
100.0	90.0	0.0	–	–	0.0	3.0	3.5	–	–	–	–	–	–
100.0	100.0	–	–	–	–	–	2.7	–	–	–	–	–	–
103.0	40.0	–	–	–	0.0	0.0	6.1	2.9	2.8	–	6.8	–	0.0
103.0	45.0	–	–	–	0.0	0.0	6.3	–	–	–	–	–	–
103.0	55.0	–	–	–	0.0	6.3	0.0	–	–	–	–	–	–
103.0	60.0	–	–	–	3.1	0.0	0.0	–	–	–	–	–	–
103.0	70.0	–	–	–	0.0	2.8	0.0	–	–	–	–	–	–
103.0	90.0	–	–	–	–	6.0	2.4	–	–	–	–	–	–
105.0	80.0	0.0	–	8.7	–	–	–	–	–	–	–	–	–
107.0	35.0	–	–	–	2.7	0.0	0.0	0.0	0.0	–	0.0	–	0.0
107.0	40.0	–	–	–	3.1	0.0	0.0	0.0	0.0	–	0.0	–	0.0
107.0	50.0	–	–	–	3.1	6.2	5.1	–	–	–	–	–	–
107.0	55.0	–	–	–	3.4	0.0	0.0	–	–	–	–	–	–
107.0	60.0	–	–	–	0.0	6.5	4.5	–	–	–	–	–	–
107.0	70.0	–	–	–	0.0	3.0	0.0	–	–	–	–	–	–
107.0	80.0	–	–	–	5.6	2.8	–	–	–	–	–	–	–
110.0	40.0	–	0.0	0.0	0.0	0.0	0.0	5.2	0.0	–	0.0	–	0.0
110.0	45.0	–	–	–	3.7	0.0	0.0	–	–	–	–	–	–
110.0	50.0	0.0	0.0	0.0	0.0	2.8	2.8	0.0	0.0	–	0.0	–	0.0
110.0	55.0	–	–	–	3.0	8.9	0.0	–	–	–	–	–	–
110.0	70.0	0.0	–	2.8	0.0	0.0	0.0	–	–	–	–	–	–
113.0	40.0	–	0.0	0.0	2.4	0.0	0.0	0.0	0.0	–	0.0	–	0.0
113.0	60.0	–	0.0	0.0	0.0	0.0	4.7	–	–	–	–	–	–
117.0	35.0	–	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	–	–
117.0	40.0	0.0	0.0	0.0	1.4	0.0	2.6	0.0	0.0	0.0	6.3	–	–
117.0	45.0	–	–	0.0	0.0	0.0	2.1	–	–	–	–	–	–
117.0	60.0	–	0.0	0.0	0.0	2.4	0.0	–	–	–	–	–	–
117.0	70.0	–	–	–	1.7	0.0	2.8	–	–	–	–	–	–
120.0	40.0	–	–	0.0	0.7	0.0	0.0	–	–	–	–	–	–
120.0	45.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0	50.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	–	3.6	–	0.0
120.0	60.0	0.0	0.0	0.0	4.2	0.0	2.5	0.0	0.0	–	0.0	–	0.0
120.0	70.0	0.0	5.9	–	0.0	0.0	1.6	0.0	0.0	–	3.6	–	0.0
120.0	80.0	0.0	0.0	–	5.1	0.0	0.0	0.0	2.7	–	6.2	–	0.0
123.0	50.0	–	0.0	0.0	0.0	3.0	0.0	0.0	0.0	–	0.0	–	0.0
123.0	55.0	–	–	1.4	0.0	2.8	0.0	–	–	–	–	–	–
123.0	60.0	–	–	1.4	0.0	2.3	0.0	–	–	–	–	–	–
127.0	40.0	–	0.0	1.9	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0	50.0	–	0.0	0.0	0.0	2.1	0.0	0.0	0.0	–	0.0	–	0.0

TABLE 4. (cont.)

Melamphaes spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.4
130.0	55.0	–	–	0.0	2.2	0.0	4.9	–	–	–	–	–	–
130.0	60.0	0.0	0.0	1.5	0.0	2.6	0.0	0.0	0.0	–	–	–	0.0
133.0	35.0	–	–	0.0	3.2	0.0	0.0	0.0	0.0	–	–	–	–
133.0	40.0	0.0	2.8	1.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
133.0	50.0	2.4	–	0.0	0.0	2.7	0.0	–	–	–	–	–	–
133.0	55.0	–	–	0.0	3.0	0.0	–	–	–	–	–	–	–
137.0	40.0	0.0	–	0.0	0.0	3.1	0.0	–	–	–	–	–	–
137.0	45.0	–	–	1.2	0.0	0.0	0.0	–	–	–	–	–	–
137.0	50.0	0.0	–	1.3	0.0	0.0	0.0	–	–	–	–	–	–
137.0	55.0	–	–	2.6	0.0	5.5	–	–	–	–	–	–	–
137.0	60.0	–	–	0.0	2.9	0.0	–	–	–	–	–	–	–
140.0	40.0	2.7	–	–	–	–	–	–	–	–	–	–	–
150.0	40.0	2.4	–	–	–	–	–	–	–	–	–	–	–

Poromitra spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	70.0	0.0	0.0	6.8	0.0	0.0	–	0.0	0.0	–	0.0	–	–
90.0	90.0	0.0	–	3.2	0.0	0.0	0.0	–	–	–	–	–	–
93.0	60.0	–	0.0	–	7.5	0.0	0.0	–	–	–	–	–	–
93.0	70.0	–	–	–	6.3	–	0.0	–	–	–	–	–	–
93.0	90.0	–	–	–	3.3	–	0.0	–	–	–	–	–	–
100.0	80.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	–	–	–	0.0
100.0	90.0	0.0	–	–	2.8	0.0	0.0	–	–	–	–	–	–
103.0	60.0	–	–	–	3.1	5.7	0.0	–	–	–	–	–	–
103.0	80.0	–	–	–	2.6	0.0	0.0	–	–	–	–	–	–
105.0	80.0	0.0	–	5.8	–	–	–	–	–	–	–	–	–
113.0	45.0	–	–	0.0	0.0	3.0	0.0	–	–	–	–	–	–

Scopelogadus bispinosus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	45.0	–	–	–	0.0	0.0	2.9	–	–	–	–	–	–

Syngnathus spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.9	–	0.0
93.0	27.0	0.0	0.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.3
97.0	30.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
97.0	35.0	–	–	0.0	0.0	0.0	0.0	6.0	0.0	–	0.0	–	0.0
100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	–	0.0	–	0.0

TABLE 4. (cont.)

Syngnathus spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	30.0	-	0.0	1.9	0.0	0.0	0.0	0.0	0.0	2.2	0.0	-	0.0
113.0	35.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	-	0.0
117.0	30.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	-	0.0
117.0	35.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	-	-
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	-	0.0
121.5	28.0	-	-	-	-	-	-	-	-	1.1	-	-	-

Agonidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	60.0	-	-	-	0.0	-	0.0	0.0	8.2	-	-	-	-
80.0	51.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
80.0	55.0	-	0.0	5.5	0.0	0.0	0.0	0.0	0.0	-	-	-	-
83.0	48.0	0.0	1.8	2.9	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	51.0	0.0	2.0	6.6	2.3	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0
87.0	55.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
97.0	30.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	-	0.0	-	0.0

Anoplopoma fimbria

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	70.0	-	-	-	5.1	0.0	0.0	-	-	-	-	-	-

Cottidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0	55.0	-	-	-	0.0	0.0	0.0	6.2	-	-	-	-	-
83.0	48.0	1.4	3.6	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	1.6	0.0
83.0	51.0	0.0	14.2	0.0	2.3	9.2	0.0	0.0	0.0	0.0	1.4	0.0	0.0
83.0	55.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.0	50.0	-	0.0	0.0	28.5	1.6	20.2	0.0	0.0	0.0	-	-	0.0
90.0	28.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	-	-	0.0	-	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	-	0.0	-	0.0
100.0	29.0	0.0	0.0	0.0	0.0	10.5	0.0	2.6	0.0	-	0.0	-	0.0
100.0	30.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	-	0.0	-	0.0
103.0	30.0	-	-	-	-	0.0	3.3	0.0	2.2	-	0.0	-	0.0
110.0	33.0	-	3.0	0.0	0.0	-	0.0	0.0	0.0	-	0.0	-	0.0

Scorpaenichthys marmoratus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	51.0	13.8	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6

TABLE 4. (cont.)

Cyclopteridae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	60.0	–	–	–	0.0	5.3	0.0	0.0	0.0	–	–	–	–
67.0	50.0	–	–	–	0.0	–	0.0	–	2.2	–	–	–	–
82.3	47.0	–	–	–	–	–	–	–	–	7.8	0.0	0.0	0.0
83.0	48.0	0.0	1.8	0.0	3.3	5.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0
83.0	51.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	2.6
87.0	45.0	–	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	–	0.0	–	0.0
100.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	–	0.0	–	0.0
103.0	30.0	–	–	–	–	0.0	0.0	0.0	0.0	–	0.0	–	2.4
110.0	33.0	–	0.0	0.0	0.0	–	0.0	7.0	0.0	–	0.0	–	0.0
113.0	40.0	–	0.0	0.0	0.0	3.1	0.0	0.0	0.0	–	0.0	–	0.0

Oxylebius pictus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	51.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
93.0	55.0	–	–	–	0.0	–	6.0	–	–	–	–	–	–
103.0	30.0	–	–	–	–	0.0	0.0	0.0	0.0	–	3.4	–	0.0

Zaniolepis spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	50.0	–	–	–	0.0	–	0.0	0.0	2.1	–	–	–	–
80.0	51.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
83.0	51.0	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0
85.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	–	0.0	0.0
87.0	35.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0	40.0	0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
97.0	30.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.7	–	0.0

Scorpaenidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	7.1	–	0.0
120.0	90.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	3.4	–	0.0

Sebastes spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	–	–	–	6.9	8.4	56.1	20.4	40.5	–	–	–	–
60.0	60.0	–	–	–	7.4	18.5	18.6	8.8	29.3	–	–	–	–

TABLE 4. (cont.)

Sebastes spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	65.0	–	–	–	–	0.0	41.4	–	–	–	–	–	–
60.0	70.0	–	–	–	3.3	16.4	–	21.8	5.9	–	–	–	–
60.0	80.0	–	–	–	13.3	15.5	–	0.0	16.5	–	–	–	–
60.0	90.0	–	–	–	4.6	19.3	–	0.0	0.0	–	–	–	–
63.0	52.0	–	–	–	32.2	45.4	7.2	17.6	4.3	–	–	–	–
63.0	55.0	–	–	–	6.8	87.7	23.0	143.5	–	–	–	–	–
63.0	60.0	–	–	–	–	–	69.6	–	–	–	–	–	–
63.0	65.0	–	–	–	–	0.0	56.7	–	–	–	–	–	–
67.0	50.0	–	–	–	18.2	–	8.7	–	4.4	–	–	–	–
67.0	53.0	–	–	–	–	–	–	200.1	–	–	–	–	–
67.0	55.0	–	–	–	25.2	–	25.9	12.2	11.6	–	–	–	–
67.0	60.0	–	–	–	–	–	0.0	9.6	–	–	–	–	–
67.0	65.0	–	–	–	–	–	0.0	5.9	0.0	–	–	–	–
70.0	51.0	–	–	–	34.4	11.2	0.0	31.8	–	–	–	–	–
70.0	55.0	–	–	–	0.0	–	0.0	5.2	73.0	–	–	–	–
70.0	60.0	–	–	–	16.6	–	5.5	22.3	16.8	–	–	–	–
70.0	65.0	–	–	–	–	5.8	6.2	–	–	–	–	–	–
70.0	70.0	–	–	–	0.0	0.0	0.0	35.5	11.0	–	–	–	–
70.0	80.0	–	–	–	–	0.0	0.0	56.2	5.5	–	–	–	–
70.0	90.0	–	–	–	3.1	0.0	0.0	–	–	–	–	–	–
70.0	110.0	–	–	–	–	2.1	–	–	–	–	–	–	–
73.0	50.0	–	–	–	55.0	–	10.3	18.3	4.2	–	–	–	–
73.0	55.0	–	–	–	–	–	0.0	2.7	–	–	–	–	–
73.0	60.0	–	–	–	11.5	–	0.0	13.0	16.4	–	–	–	–
77.0	50.0	–	–	–	0.0	3.1	4.1	0.0	7.6	–	–	–	–
77.0	55.0	–	–	–	0.0	20.1	6.0	0.0	38.0	–	–	–	–
77.0	60.0	–	–	–	–	24.7	6.2	49.0	–	–	–	–	–
77.0	65.0	–	–	–	0.0	–	6.8	0.0	18.4	–	–	–	–
80.0	51.0	74.5	25.7	49.8	2.9	7.7	2.7	11.1	3.4	–	–	–	–
80.0	55.0	–	230.9	148.5	0.0	19.7	5.7	0.0	18.9	–	–	–	–
80.0	60.0	189.1	730.8	167.0	0.0	0.0	15.9	0.0	0.0	–	–	–	–
80.0	65.0	–	–	–	–	–	6.8	–	–	–	–	–	–
80.0	70.0	0.0	25.9	3.6	0.0	0.0	0.0	50.2	0.0	–	–	–	–
80.0	80.0	2.4	0.0	0.0	0.0	12.2	2.9	0.0	0.0	–	–	–	–
80.0	90.0	0.0	–	0.0	0.0	11.2	11.5	0.0	0.0	–	–	–	–
81.8	46.0	–	–	–	–	–	–	–	–	1.5	–	40.9	43.6
82.3	47.0	–	–	–	–	–	–	–	–	54.6	0.0	10.4	22.4
83.0	40.0	–	–	–	4.2	8.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
83.0	43.0	34.7	973.8	153.4	143.5	10.5	6.5	0.0	4.4	47.9	25.8	9.8	56.9
83.0	48.0	29.6	474.3	226.2	160.9	16.5	10.8	4.1	11.9	32.0	7.6	47.1	66.4
83.0	51.0	566.5	444.6	139.0	148.8	57.3	12.6	4.3	27.5	26.3	14.4	203.1	63.4
83.0	55.0	377.9	576.3	39.0	13.4	28.1	27.8	12.0	25.4	11.8	27.7	85.7	106.6
83.0	60.0	36.6	99.0	301.8	24.1	2.9	14.6	13.6	22.0	–	–	2.4	4.6
83.0	65.0	–	–	–	–	–	7.7	–	–	–	–	–	–
83.0	70.0	–	–	–	3.0	12.2	6.4	–	–	–	–	–	–
83.0	80.0	–	–	–	2.7	0.0	0.0	–	–	–	–	–	–

TABLE 4. (cont.)

Sebastes spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	90.0	–	–	–	0.0	2.9	0.0	–	–	–	–	–	–
85.0	39.0	98.0	243.2	286.9	67.2	0.0	0.0	18.7	37.9	23.8	–	70.0	11.9
85.0	40.0	30.4	72.0	95.1	151.7	2.2	0.0	21.1	35.7	0.0	–	6.3	18.7
85.0	45.0	112.6	294.8	282.9	102.6	15.4	9.9	6.1	10.4	5.8	–	58.0	95.9
85.0	50.0	78.3	252.2	52.0	145.7	24.6	12.1	0.0	20.0	43.9	–	19.8	28.2
85.0	55.0	74.4	108.9	127.7	106.7	51.4	12.1	0.0	3.7	32.0	–	3.8	–
85.0	60.0	0.0	272.0	158.1	18.5	42.2	10.0	86.6	5.1	–	–	12.9	–
87.0	35.0	245.7	47.0	73.5	17.5	16.3	0.0	0.0	28.3	39.4	–	50.4	4.9
87.0	40.0	365.8	153.9	117.6	112.5	0.0	5.8	6.9	11.2	34.1	–	15.4	30.2
87.0	45.0	–	400.4	163.9	63.6	20.3	5.7	10.0	22.1	5.1	–	7.6	60.7
87.0	50.0	–	345.4	110.3	51.8	32.7	0.0	0.0	18.0	7.6	–	–	188.0
87.0	55.0	95.9	198.7	5.5	113.0	31.7	0.0	0.0	42.3	0.0	–	3.6	12.6
87.0	60.0	3.1	29.1	–	19.0	0.0	3.5	0.0	0.0	0.0	–	2.5	–
87.0	65.0	–	–	–	–	–	4.7	–	–	–	–	–	–
87.0	70.0	–	–	–	15.4	4.0	0.0	–	–	–	–	–	–
87.0	90.0	–	–	–	3.0	5.3	0.0	–	–	–	–	–	–
90.0	28.0	22.5	34.4	157.4	208.7	0.0	0.0	5.3	–	–	3.1	–	26.5
90.0	30.0	14.9	55.8	93.1	70.0	2.4	0.0	11.8	0.0	–	14.6	–	11.6
90.0	35.0	–	–	–	–	21.0	–	–	–	–	–	–	–
90.0	37.0	0.0	0.0	8.9	8.9	–	5.5	11.0	2.8	–	8.8	–	2.6
90.0	41.0	–	–	–	–	50.8	–	–	–	–	–	–	–
90.0	45.0	0.0	67.2	33.9	19.9	0.0	0.0	0.0	6.1	–	2.9	–	0.0
90.0	50.0	–	–	287.1	–	14.5	6.7	6.5	7.4	–	3.3	–	77.8
90.0	53.0	22.3	41.2	–	–	–	–	–	–	–	–	–	–
90.0	55.0	–	–	25.8	71.2	10.8	139.0	17.4	0.0	–	6.5	–	48.1
90.0	60.0	2.8	0.0	7.6	47.2	29.5	13.0	13.8	0.0	–	0.0	–	0.0
90.0	70.0	0.0	5.0	6.8	2.3	5.6	–	17.5	0.0	–	0.0	–	–
90.0	80.0	0.0	3.3	0.0	0.0	0.0	11.4	–	–	–	–	–	–
93.0	27.0	18.0	33.4	–	68.2	4.6	0.0	6.4	10.4	–	10.1	–	11.8
93.0	30.0	47.3	36.8	17.8	128.3	0.0	0.0	3.0	6.7	–	0.0	–	10.1
93.0	35.0	–	–	–	44.8	29.3	29.7	7.6	0.0	–	–	–	–
93.0	40.0	2.8	168.0	–	0.0	6.6	6.6	7.4	0.0	–	0.0	–	0.0
93.0	45.0	–	–	–	12.6	8.5	0.0	0.0	–	–	–	–	–
93.0	50.0	0.0	21.9	35.1	0.0	52.8	9.7	14.8	0.0	–	3.1	–	15.3
93.0	55.0	–	–	–	0.0	–	144.0	–	–	–	–	–	–
93.0	60.0	–	0.0	–	2.5	14.2	6.1	–	–	–	–	–	–
93.0	65.0	–	–	–	–	–	13.8	–	–	–	–	–	–
93.0	70.0	–	–	–	3.1	–	58.1	–	–	–	–	–	–
93.0	80.0	–	–	–	0.0	–	4.1	–	–	–	–	–	–
97.0	30.0	267.3	28.8	81.2	99.0	69.2	4.7	1.5	7.4	–	11.3	–	22.8
97.0	32.0	10.1	79.8	–	–	–	–	–	–	–	–	–	–
97.0	35.0	–	–	5.8	3.2	5.0	3.5	12.0	0.0	–	0.0	–	2.6
97.0	40.0	18.2	14.9	3.1	0.0	8.6	0.0	0.0	0.0	–	0.0	–	0.0
97.0	45.0	–	–	–	0.0	19.9	0.0	0.0	–	–	–	–	–
97.0	50.0	66.8	2.4	–	12.8	0.0	61.4	0.0	0.0	–	0.0	–	0.0
97.0	60.0	7.2	9.6	–	3.2	13.1	5.6	–	–	–	–	–	–

TABLE 4. (cont.)

Sebastes spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	65.0	–	–	–	–	–	11.3	–	–	–	–	–	–
100.0	29.0	55.4	174.8	25.4	56.2	47.3	3.2	10.4	0.0	–	2.7	–	42.4
100.0	30.0	77.5	42.0	66.7	125.2	43.5	3.1	0.0	6.7	–	9.0	–	32.3
100.0	35.0	–	–	–	3.1	2.5	24.6	0.0	0.0	–	–	–	–
100.0	40.0	2.7	22.5	17.2	0.0	0.0	36.8	0.0	0.0	–	5.4	–	16.2
100.0	45.0	–	–	–	3.4	0.0	30.4	0.0	–	–	–	–	–
100.0	50.0	0.0	36.3	0.0	0.0	0.0	49.1	0.0	3.1	–	0.0	–	0.0
100.0	55.0	–	–	–	3.5	0.0	18.3	–	0.0	–	–	–	–
100.0	60.0	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	65.0	–	–	–	–	–	13.3	–	–	–	–	–	–
100.0	70.0	7.1	0.0	2.9	0.0	0.0	0.0	0.0	0.0	–	2.9	–	0.0
100.0	90.0	0.0	–	–	2.8	0.0	0.0	–	–	–	–	–	–
103.0	30.0	–	–	–	–	44.5	0.0	0.0	4.3	–	40.4	–	12.0
103.0	35.0	–	–	–	0.0	43.4	6.0	0.0	0.0	–	3.8	–	49.5
103.0	40.0	–	–	–	0.0	6.0	0.0	5.9	0.0	–	0.0	–	2.5
103.0	45.0	–	–	–	2.5	0.0	6.3	–	–	–	–	–	–
103.0	50.0	–	–	–	0.0	2.9	0.0	–	–	–	–	–	–
103.0	60.0	–	–	–	0.0	0.0	10.3	–	–	–	–	–	–
103.0	65.0	–	–	–	–	–	6.2	–	–	–	–	–	–
103.0	90.0	–	–	–	–	0.0	4.9	–	–	–	–	–	–
105.0	32.0	65.7	122.4	68.8	–	–	–	–	–	–	–	–	–
105.0	35.0	4.2	0.0	34.1	–	–	–	–	–	–	–	–	–
105.0	40.0	0.0	3.2	18.5	–	–	–	–	–	–	–	–	–
105.0	50.0	0.0	0.0	5.5	–	–	–	–	–	–	–	–	–
105.0	60.0	0.0	0.0	38.8	–	–	–	–	–	–	–	–	–
107.0	32.0	–	–	–	55.4	15.3	9.9	0.0	0.0	–	16.2	–	17.2
107.0	35.0	–	–	–	40.7	23.4	2.8	2.8	0.0	–	13.9	–	0.0
107.0	40.0	–	–	–	6.2	0.0	9.4	0.0	0.0	–	3.5	–	2.4
107.0	45.0	–	–	–	0.0	0.0	4.7	–	–	–	–	–	–
107.0	80.0	–	–	–	2.8	0.0	–	–	–	–	–	–	–
110.0	33.0	–	82.9	51.8	5.9	–	0.0	0.0	5.1	–	0.0	–	45.8
110.0	35.0	–	12.9	23.0	48.2	0.0	11.1	7.1	0.0	–	7.3	–	23.4
110.0	40.0	–	0.0	61.6	96.1	0.0	3.1	0.0	0.0	–	0.0	–	4.5
110.0	45.0	–	–	–	3.7	0.0	0.0	–	–	–	–	–	–
110.0	50.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.8
110.0	55.0	–	–	–	6.0	0.0	2.9	–	–	–	–	–	–
110.0	60.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	–	0.0	–	0.0
110.0	70.0	0.0	–	11.2	0.0	0.0	0.0	–	–	–	–	–	–
113.0	30.0	–	297.0	20.8	12.1	11.4	3.5	0.0	0.0	0.0	5.4	–	87.1
113.0	35.0	–	40.1	222.2	24.1	48.2	5.1	0.0	0.0	0.0	20.5	–	0.0
113.0	40.0	–	140.6	96.4	2.8	18.8	0.0	2.0	0.0	–	3.3	–	0.0
113.0	45.0	–	–	15.1	3.5	14.9	2.6	–	–	–	–	–	–
113.0	50.0	0.0	0.0	6.8	26.4	14.0	3.0	–	–	–	–	–	–
113.0	55.0	–	–	0.0	1.5	0.0	8.4	–	–	–	–	–	–
113.0	60.0	–	0.0	0.0	0.0	0.0	4.7	–	–	–	–	–	–
115.0	35.0	–	–	–	–	–	–	–	–	6.7	–	–	–

TABLE 4. (cont.)

Sebastes spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	26.0	–	52.4	20.8	11.8	54.0	0.0	0.0	0.0	0.0	2.9	–	1.8
117.0	30.0	–	73.9	10.1	33.4	0.0	9.8	0.0	0.0	0.0	2.7	–	5.6
117.0	35.0	–	63.0	57.6	26.2	42.7	0.0	0.0	0.0	2.8	0.0	–	–
117.0	40.0	12.6	0.0	310.8	177.3	21.2	5.3	0.0	0.0	26.5	3.2	–	–
117.0	45.0	–	–	0.0	140.2	46.2	0.0	–	–	–	–	–	–
117.0	50.0	8.3	42.4	3.1	17.9	19.3	58.4	–	–	–	–	–	–
117.0	55.0	–	–	0.0	24.7	0.0	25.8	–	–	–	–	–	–
117.0	60.0	–	0.0	0.0	5.7	0.0	0.0	–	–	–	–	–	–
117.0	70.0	–	–	–	1.5	2.5	2.8	–	–	–	–	–	–
118.5	25.0	–	–	–	–	–	–	–	–	1.3	–	–	–
119.0	42.0	–	–	–	–	–	–	–	–	6.1	–	–	–
120.0	25.0	2.0	0.0	2.2	16.2	3.8	0.0	–	0.0	3.7	0.0	–	0.0
120.0	30.0	45.1	88.8	16.0	12.2	0.0	16.3	6.5	0.0	11.8	10.8	–	0.0
120.0	31.0	–	–	–	–	–	–	–	–	7.0	–	–	–
120.0	35.0	22.6	26.8	8.0	9.9	6.5	12.4	30.4	0.0	0.0	0.0	–	0.0
120.0	40.0	–	–	57.7	7.7	4.0	0.0	–	–	–	–	–	–
120.0	43.0	–	–	–	–	–	–	–	–	2.4	–	–	–
120.0	45.0	5.1	0.0	79.5	58.8	5.5	6.3	0.0	0.0	–	3.6	–	0.0
120.0	50.0	0.0	5.8	40.8	31.0	23.7	9.7	0.0	0.0	–	0.0	–	0.0
120.0	55.0	–	–	0.0	44.2	0.0	0.0	–	–	–	–	–	–
120.0	60.0	0.0	13.5	0.0	12.3	0.0	0.0	0.0	3.3	–	0.0	–	0.0
121.0	30.0	–	–	–	–	–	–	–	–	21.6	–	–	–
121.0	34.0	–	–	–	–	–	–	–	–	13.0	–	–	–
121.0	41.0	–	–	–	–	–	–	–	–	5.5	–	–	–
121.1	26.0	–	–	–	–	–	–	–	–	3.6	–	–	–
121.5	28.0	–	–	–	–	–	–	–	–	2.1	–	–	–
123.0	37.0	40.5	30.4	208.0	0.0	2.2	0.0	–	0.0	–	0.0	–	3.0
123.0	40.0	–	2.7	66.6	26.9	0.0	2.6	0.0	0.0	–	0.0	–	24.9
123.0	45.0	–	3.0	6.1	55.0	9.5	8.9	0.0	0.0	–	–	–	–
123.0	50.0	–	0.0	1.4	2.8	9.1	3.0	0.0	0.0	–	0.0	–	6.7
123.0	55.0	–	–	1.4	0.0	8.5	0.0	–	–	–	–	–	–
127.0	34.0	1.5	21.8	41.4	17.5	49.4	0.0	0.0	5.6	–	0.0	–	0.0
127.0	40.0	–	0.0	11.1	9.5	5.2	0.0	2.4	0.0	–	0.0	–	5.7
127.0	45.0	–	0.0	14.1	0.0	2.5	2.5	0.0	0.0	–	–	–	–
127.0	50.0	–	0.0	0.0	0.0	2.1	13.7	0.0	0.0	–	0.0	–	0.0
130.0	30.0	–	0.0	6.7	11.1	0.0	0.0	–	0.0	–	0.0	–	27.6
130.0	35.0	6.7	0.0	1.4	0.0	0.0	0.0	2.8	0.0	–	0.0	–	30.8
130.0	40.0	0.0	0.0	4.8	0.0	5.3	4.4	0.0	0.0	–	0.0	–	0.0
130.0	45.0	–	0.0	6.9	42.4	13.5	5.6	0.0	3.0	–	–	–	–
130.0	50.0	–	0.0	3.1	0.0	5.3	2.8	0.0	0.0	–	0.0	–	0.0
133.0	25.0	0.0	0.0	32.8	5.7	0.0	0.0	0.0	0.0	–	0.0	–	101.8
133.0	30.0	0.0	2.6	18.8	9.6	2.1	0.0	0.0	6.5	–	176.7	–	25.8
133.0	35.0	–	–	38.0	0.0	5.6	0.0	2.8	0.0	–	–	–	–
133.0	40.0	0.0	2.8	0.0	0.0	2.4	3.7	0.0	0.0	–	0.0	–	5.3
133.0	45.0	–	–	0.0	0.0	20.6	0.0	–	–	–	–	–	–
133.0	50.0	0.0	–	0.0	0.0	2.7	0.0	–	–	–	–	–	–

TABLE 4. (cont.)

Sebastes spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	55.0	–	–	0.0	0.0	2.0	–	–	–	–	–	–	–
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	119.0	–	307.3	–	139.4
137.0	30.0	0.0	–	4.8	11.9	0.0	3.1	0.0	105.3	–	–	–	14.3
137.0	35.0	–	–	0.0	20.6	2.5	12.3	–	–	–	–	–	–
137.0	45.0	–	–	1.2	0.0	0.0	2.3	–	–	–	–	–	–
137.0	50.0	0.0	–	1.4	0.0	0.0	0.0	–	–	–	–	–	–

Sebastolobus spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	100.0	–	–	–	–	2.6	–	0.0	0.0	–	–	–	–
80.0	110.0	–	–	–	0.0	3.3	–	–	–	–	–	–	–

Prionotus spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	51.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90.0	30.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	9.7	–	0.0
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	4.5	–	0.0
127.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	20.0	–	0.0
130.0	30.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	3.3	–	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	196.3	–	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	124.8	–	0.0
143.0	26.0	2.5	–	–	–	–	–	–	–	–	–	–	–
147.0	20.0	4.0	–	–	–	–	–	–	–	–	–	–	–
147.0	25.0	2.6	–	–	–	–	–	–	–	–	–	–	–
150.0	30.0	10.9	–	–	–	–	–	–	–	–	–	–	–

Hypsoblennius spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	27.1	0.0	0.0	0.0	0.0	0.0
87.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	–	–	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0	–	0.0	–	0.0
93.0	27.0	0.0	0.0	–	0.0	0.0	5.6	0.0	5.2	–	0.0	–	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	–	0.0	–	5.7
97.0	32.0	0.0	2.8	–	–	–	–	–	–	–	–	–	–
97.0	35.0	–	–	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.6
100.0	29.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
105.0	32.0	2.1	0.0	0.0	–	–	–	–	–	–	–	–	–
107.0	35.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	3.5	–	0.0
107.0	40.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	3.5	–	0.0

TABLE 4. (cont.)

Hypsoblennius spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	33.0	–	0.0	0.0	0.0	–	0.0	2.3	0.0	–	0.0	–	0.0
117.0	26.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	–	0.0
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.0	–	–
117.0	50.0	2.8	0.0	0.0	0.0	0.0	0.0	–	–	–	–	–	–
118.5	25.0	–	–	–	–	–	–	–	–	1.3	–	–	–
119.0	42.0	–	–	–	–	–	–	–	–	2.0	–	–	–
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	1.2	0.0	–	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	–	0.0
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.6	–	0.0
121.0	30.0	–	–	–	–	–	–	–	–	4.3	–	–	–
121.0	34.0	–	–	–	–	–	–	–	–	4.3	–	–	–
121.1	26.0	–	–	–	–	–	–	–	–	2.4	–	–	–
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.2	–	0.0	–	0.0
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	10.6	–	0.0	–	0.0
127.0	34.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	–	6.8	–	0.0
127.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	5.8	–	0.0	–	0.0
127.0	45.0	–	0.0	0.0	0.0	0.0	0.0	0.0	3.7	–	–	–	–
130.0	30.0	–	0.0	0.0	0.0	0.0	0.0	–	10.6	–	0.0	–	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	–	0.0	–	0.0
133.0	25.0	0.0	2.2	1.5	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
137.0	23.0	0.0	0.0	1.3	0.0	0.0	0.0	4.7	0.0	–	0.0	–	0.0
137.0	30.0	0.0	–	1.3	0.0	0.0	0.0	0.0	0.0	–	–	–	0.0

Clinidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	2.6
85.0	39.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
93.0	27.0	0.0	0.0	–	0.0	0.0	5.6	0.0	0.0	–	0.0	–	0.0
100.0	29.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	30.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	–	0.0	–	0.0
107.0	32.0	–	–	–	3.1	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	33.0	–	0.0	0.0	5.9	–	0.0	0.0	0.0	–	0.0	–	0.0
120.0	40.0	–	–	0.0	2.1	0.0	0.0	–	–	–	–	–	–
123.0	37.0	2.3	0.0	1.3	0.0	0.0	0.0	–	0.0	–	0.0	–	0.0
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	3.8

Gobiidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	60.0	–	–	–	0.0	–	0.0	0.0	8.2	–	–	–	–
77.0	65.0	–	–	–	0.0	–	0.0	3.1	0.0	–	–	–	–
80.0	51.0	2.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	–	–	–	–
80.0	70.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	–	–	–	–

TABLE 4. (cont.)

Gobiidae (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
81.8	46.0	–	–	–	–	–	–	–	–	0.0	–	0.0	2.4
82.3	47.0	–	–	–	–	–	–	–	–	0.0	5.9	2.6	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	0.0	3.3	0.0
83.0	48.0	0.0	1.8	2.9	0.0	0.0	3.6	0.0	2.4	2.5	0.0	0.0	0.0
83.0	51.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	8.3	0.0	2.9	6.7	7.9
83.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	0.0	2.3
85.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.0	0.0
85.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.1	0.0
85.0	45.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	50.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	60.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	–	–	0.0	–
87.0	40.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0	45.0	–	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	–	0.0	0.0
87.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	–	–	0.0
90.0	28.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	–	–	0.0	–	0.0
90.0	55.0	–	–	0.0	0.0	0.0	6.3	0.0	0.0	–	0.0	–	0.0
93.0	30.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	–	0.0	–	0.0
93.0	35.0	–	–	–	0.0	4.2	0.0	0.0	0.0	–	–	–	–
93.0	45.0	–	–	–	12.6	0.0	0.0	0.0	–	–	–	–	–
97.0	30.0	1.6	0.0	0.0	0.0	1.9	0.0	0.0	0.0	–	0.0	–	0.0
97.0	35.0	–	–	0.0	0.0	9.9	0.0	0.0	0.0	–	0.0	–	0.0
97.0	40.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
97.0	55.0	–	–	–	5.7	–	–	–	–	–	–	–	–
97.0	60.0	0.0	0.0	–	3.2	0.0	0.0	–	–	–	–	–	–
103.0	30.0	–	–	–	–	0.0	0.0	0.0	8.6	–	0.0	–	0.0
103.0	35.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.8
103.0	40.0	–	–	–	0.0	3.0	0.0	0.0	2.8	–	0.0	–	0.0
107.0	35.0	–	–	–	0.0	0.0	2.8	0.0	0.0	–	0.0	–	0.0
113.0	30.0	–	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
113.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.3	–	0.0
117.0	35.0	–	0.0	0.0	0.0	2.4	0.0	3.4	0.0	2.8	0.0	–	–
118.5	35.0	–	–	–	–	–	–	–	–	1.6	–	–	–
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	6.8	–	0.0
121.5	28.0	–	–	–	–	–	–	–	–	61.0	–	–	–
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	2.0	0.0	–	3.2	–	0.0
130.0	30.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	3.3	–	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	–	0.0	–	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	1.9
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.3	–	0.0
150.0	30.0	2.7	–	–	–	–	–	–	–	–	–	–	–

Labridae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	60.0	–	–	–	0.0	–	0.0	0.0	8.2	–	–	–	–

TABLE 4. (cont.)

Labridae (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	55.0	-	-	-	0.0	6.7	0.0	0.0	0.0	-	-	-	-
83.0	40.0	-	-	-	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.8	0.0	0.0	3.3	0.0
83.0	48.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	9.8	0.0	0.0	0.0
83.0	51.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	16.5	2.9	0.0	0.0	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0
83.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	-	-	0.0	0.0
85.0	39.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	0.0
85.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	5.2	0.0	-	0.0	0.0
85.0	50.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	-	0.0	0.0
85.0	55.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	3.7	8.7	-	0.0	-
85.0	60.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0	2.6	-	-	0.0	-
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	24.1	0.0	0.0	-	0.0	0.0
87.0	45.0	-	0.0	0.0	0.0	0.0	0.0	10.0	5.5	0.0	-	0.0	0.0
87.0	50.0	-	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	-	-	0.0
87.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	-	0.0	0.0
87.0	60.0	0.0	0.0	-	0.0	0.0	0.0	0.0	3.6	0.0	-	0.0	-
90.0	37.0	0.0	0.0	0.0	0.0	-	0.0	5.5	2.8	-	0.0	-	0.0
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
93.0	27.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	-	3.4	-	0.0
93.0	35.0	-	-	-	0.0	12.5	0.0	0.0	0.0	-	-	-	-
93.0	40.0	0.0	0.0	-	0.0	0.0	0.0	4.9	0.0	-	0.0	-	0.0
93.0	45.0	-	-	-	0.0	0.0	0.0	12.3	-	-	-	-	-
97.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.3	-	0.0
97.0	35.0	-	-	0.0	0.0	0.0	3.5	12.0	4.7	-	0.0	-	0.0
97.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	-	0.0	-	0.0
97.0	50.0	0.0	0.0	-	0.0	0.0	6.8	0.0	0.0	-	0.0	-	0.0
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	-	0.0	-	0.0
100.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	-	0.0	-	0.0
100.0	50.0	0.0	0.0	0.0	0.0	0.0	12.3	0.0	0.0	-	0.0	-	0.0
100.0	55.0	-	-	-	0.0	0.0	0.0	-	3.3	-	-	-	-
100.0	70.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	-	0.0	-	0.0
103.0	40.0	-	-	-	0.0	9.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0	35.0	-	-	-	0.0	0.0	2.8	0.0	0.0	-	0.0	-	0.0
107.0	40.0	-	-	-	0.0	0.0	0.0	2.6	0.0	-	0.0	-	0.0
110.0	35.0	-	0.0	0.0	0.0	6.8	11.1	0.0	10.2	-	0.0	-	0.0
110.0	40.0	-	0.0	0.0	0.0	0.0	0.0	0.0	3.4	-	0.0	-	0.0
110.0	50.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	12.4	-	0.0	-	0.0
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.7
110.0	65.0	-	-	-	-	-	8.5	-	-	-	-	-	-
113.0	35.0	-	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	6.8	-	0.0
113.0	40.0	-	0.0	0.0	0.0	3.1	2.6	0.0	0.0	-	13.0	-	0.0
113.0	60.0	-	0.0	0.0	0.0	0.0	4.7	-	-	-	-	-	-
117.0	30.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	-	0.0
117.0	35.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	2.9	3.2	-	-

TABLE 4. (cont.)

Labridae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0 45.0	–	–	0.0	0.0	0.0	4.2	–	–	–	–	–	–
117.0 55.0	–	–	0.0	0.0	0.0	6.4	–	–	–	–	–	–
117.0 60.0	–	0.0	0.0	0.0	2.4	0.0	–	–	–	–	–	–
118.5 25.0	–	–	–	–	–	–	–	–	1.3	–	–	–
120.0 45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.6	–	0.0
120.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	17.9	–	0.0
120.0 60.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	9.8	–	0.0	–	0.0
120.0 70.0	0.0	0.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.4
120.0 90.0	–	–	–	1.7	2.7	3.7	0.0	0.0	–	0.0	–	0.0
121.0 30.0	–	–	–	–	–	–	–	–	4.3	–	–	–
121.0 41.0	–	–	–	–	–	–	–	–	5.5	–	–	–
123.0 37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	22.3	–	0.0
123.0 40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.2	–	0.0
123.0 50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.2
123.0 55.0	–	–	0.0	0.0	0.0	2.9	–	–	–	–	–	–
127.0 34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.3	–	0.0
130.0 30.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0	–	2.0
133.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	14.2	–	0.0
137.0 23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	–	0.0	–	0.0
147.0 30.0	2.4	–	–	–	–	–	–	–	–	–	–	–
150.0 25.0	2.7	–	–	–	–	–	–	–	–	–	–	–

Apogonidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 145.0	–	–	–	0.0	2.7	–	–	–	–	–	–	–
80.0 160.0	–	–	–	0.0	3.0	–	–	–	–	–	–	–

Trachurus symmetricus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0 55.0	–	–	–	0.0	–	0.0	8.2	0.0	–	–	–	–
67.0 65.0	–	–	–	–	–	0.0	0.0	5.7	–	–	–	–
70.0 80.0	–	–	–	–	0.0	17.3	0.0	0.0	–	–	–	–
70.0 100.0	–	–	–	–	0.0	15.9	–	–	–	–	–	–
77.0 65.0	–	–	–	0.0	–	0.0	59.7	0.0	–	–	–	–
80.0 55.0	–	2.5	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0 60.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	–	–	–	–
80.0 70.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0	–	–	–	–
80.0 80.0	0.0	0.0	0.0	0.0	0.0	17.5	0.0	0.0	–	–	–	–
80.0 90.0	0.0	–	0.0	0.0	5.6	46.1	13.3	2.3	–	–	–	–
80.0 100.0	0.0	–	4.9	0.0	9.2	0.0	0.0	2.3	–	–	–	–
80.0 120.0	–	–	–	61.5	45.6	–	–	–	–	–	–	–
80.0 130.0	–	–	–	0.0	3.0	–	–	–	–	–	–	–

TABLE 4. (cont.)

Trachurus symmetricus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 138.0	–	–	–	–	49.8	–	–	–	–	–	–	–
80.0 145.0	–	–	–	6.8	54.2	–	–	–	–	–	–	–
80.0 153.0	–	–	–	–	126.4	–	–	–	–	–	–	–
80.0 160.0	–	–	–	18.4	21.3	–	–	–	–	–	–	–
83.0 43.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0 65.0	–	–	–	–	–	145.5	–	–	–	–	–	–
83.0 70.0	–	–	–	0.0	0.0	89.6	–	–	–	–	–	–
83.0 80.0	–	–	–	0.0	13.3	79.0	–	–	–	–	–	–
83.0 90.0	–	–	–	0.0	2.9	27.5	–	–	–	–	–	–
85.0 39.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	–	0.0	0.0
85.0 45.0	0.0	0.0	0.0	0.0	0.0	0.0	36.5	0.0	0.0	–	0.0	0.0
85.0 50.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	–	0.0	0.0
87.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	0.0	0.0	–	0.0	0.0
87.0 50.0	–	0.0	0.0	0.0	0.0	0.0	4.3	4.0	2.5	–	–	0.0
87.0 55.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	0.0	0.0	–	0.0	0.0
87.0 60.0	0.0	0.0	–	0.0	11.7	20.8	0.0	0.0	0.0	–	0.0	–
87.0 65.0	–	–	–	–	–	89.5	–	–	–	–	–	–
87.0 70.0	–	–	–	0.0	4.0	20.0	–	–	–	–	–	–
87.0 80.0	–	–	–	0.0	2.3	–	–	–	–	–	–	–
87.0 90.0	–	–	–	0.0	2.6	2.8	–	–	–	–	–	–
90.0 28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	3.1	–	0.0
90.0 35.0	–	–	–	–	4.2	–	–	–	–	–	–	–
90.0 37.0	0.0	0.0	0.0	0.0	–	0.0	16.5	0.0	–	0.0	–	0.0
90.0 45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	–	0.0	–	0.0
90.0 50.0	–	–	0.0	–	0.0	0.0	3.3	0.0	–	0.0	–	0.0
90.0 55.0	–	–	0.0	0.0	0.0	0.0	17.4	0.0	–	0.0	–	0.0
90.0 60.0	0.0	0.0	7.6	0.0	0.0	0.0	55.0	0.0	–	0.0	–	0.0
90.0 70.0	0.0	0.0	0.0	2.3	0.0	–	35.0	0.0	–	0.0	–	–
90.0 80.0	0.0	0.0	0.0	0.0	0.0	28.6	–	–	–	–	–	–
90.0 90.0	0.0	–	91.6	0.0	2.5	7.0	–	–	–	–	–	–
90.0 120.0	–	–	–	0.0	14.6	–	–	–	–	–	–	–
90.0 130.0	–	–	–	6.7	3.1	–	–	–	–	–	–	–
90.0 139.0	–	–	–	–	14.1	–	–	–	–	–	–	–
90.0 145.0	–	–	–	10.2	30.2	–	–	–	–	–	–	–
90.0 152.5	–	–	–	–	27.1	–	–	–	–	–	–	–
90.0 160.0	–	–	–	0.0	15.3	–	–	–	–	–	–	–
93.0 27.0	0.0	0.0	–	0.0	0.0	11.1	0.0	0.0	–	3.4	–	0.0
93.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	–	0.0	–	0.0
93.0 35.0	–	–	–	0.0	8.4	0.0	0.0	0.0	–	–	–	–
93.0 40.0	0.0	0.0	–	0.0	0.0	0.0	2.5	0.0	–	4.3	–	0.0
93.0 50.0	0.0	0.0	0.0	0.0	5.3	0.0	7.4	0.0	–	0.0	–	0.0
93.0 55.0	–	–	–	0.0	–	6.0	–	–	–	–	–	–
93.0 65.0	–	–	–	–	–	23.0	–	–	–	–	–	–
93.0 70.0	–	–	–	0.0	–	37.0	–	–	–	–	–	–
93.0 80.0	–	–	–	0.0	–	120.4	–	–	–	–	–	–

TABLE 4. (cont.)

Trachurus symmetricus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	90.0	–	–	–	0.0	–	3.2	–	–	–	–	–	–
97.0	30.0	0.0	0.0	0.0	0.0	0.0	2.4	1.5	2.5	–	2.3	–	0.0
97.0	35.0	–	–	2.9	0.0	0.0	72.5	0.0	0.0	–	8.5	–	0.0
97.0	40.0	0.0	0.0	0.0	3.1	17.1	3.2	2.8	0.0	–	8.9	–	0.0
97.0	45.0	–	–	–	0.0	16.5	0.0	0.0	–	–	–	–	–
97.0	50.0	0.0	0.0	–	0.0	0.0	13.6	12.5	0.0	–	39.2	–	0.0
97.0	60.0	0.0	0.0	–	0.0	0.0	219.2	–	–	–	–	–	–
97.0	65.0	–	–	–	–	–	183.9	–	–	–	–	–	–
97.0	70.0	–	–	–	12.0	8.5	42.0	–	–	–	–	–	–
97.0	80.0	–	–	–	12.8	–	16.3	–	–	–	–	–	–
97.0	90.0	–	–	–	88.7	–	5.3	–	–	–	–	–	–
100.0	29.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	–	0.0	–	0.0
100.0	40.0	0.0	0.0	45.8	6.9	0.0	2.8	0.0	0.0	–	2.7	–	0.0
100.0	45.0	–	–	–	10.2	0.0	73.0	9.9	–	–	–	–	–
100.0	50.0	0.0	0.0	82.6	0.0	0.0	36.8	14.2	3.1	–	0.0	–	0.0
100.0	55.0	–	–	–	0.0	0.0	45.8	–	3.3	–	–	–	–
100.0	60.0	0.0	3.3	10.7	0.0	0.0	7.1	0.0	0.0	–	0.0	–	0.0
100.0	65.0	–	–	–	–	–	6.6	–	–	–	–	–	–
100.0	70.0	0.0	0.0	26.1	16.9	32.0	60.6	0.0	0.0	–	0.0	–	0.0
100.0	80.0	0.0	176.6	39.0	8.1	48.0	31.3	0.0	0.0	–	–	–	0.0
100.0	90.0	0.0	–	–	5.5	12.1	17.8	–	–	–	–	–	–
100.0	100.0	–	–	–	–	–	13.5	–	–	–	–	–	–
103.0	30.0	–	–	–	–	14.0	0.0	0.0	0.0	–	0.0	–	0.0
103.0	35.0	–	–	–	16.7	14.5	0.0	0.0	0.0	–	0.0	–	0.0
103.0	40.0	–	–	–	2.7	0.0	0.0	0.0	0.0	–	10.2	–	0.0
103.0	45.0	–	–	–	2.5	59.8	0.0	–	–	–	–	–	–
103.0	50.0	–	–	–	0.0	51.7	9.2	–	–	–	–	–	–
103.0	55.0	–	–	–	0.0	31.6	37.8	–	–	–	–	–	–
103.0	60.0	–	–	–	0.0	11.4	10.3	–	–	–	–	–	–
103.0	65.0	–	–	–	–	–	18.6	–	–	–	–	–	–
103.0	70.0	–	–	–	40.5	71.8	48.6	–	–	–	–	–	–
103.0	80.0	–	–	–	26.4	7.3	8.4	–	–	–	–	–	–
103.0	90.0	–	–	–	–	6.0	17.0	–	–	–	–	–	–
105.0	35.0	0.0	0.0	4.3	–	–	–	–	–	–	–	–	–
105.0	40.0	0.0	3.2	21.1	–	–	–	–	–	–	–	–	–
105.0	50.0	0.0	0.0	38.8	–	–	–	–	–	–	–	–	–
105.0	60.0	0.0	3.1	16.6	–	–	–	–	–	–	–	–	–
105.0	70.0	0.0	–	59.6	–	–	–	–	–	–	–	–	–
105.0	80.0	0.0	–	109.8	–	–	–	–	–	–	–	–	–
107.0	35.0	–	–	–	2.7	13.0	5.7	19.9	0.0	–	0.0	–	0.0
107.0	40.0	–	–	–	12.4	0.0	56.2	90.6	0.0	–	0.0	–	0.0
107.0	45.0	–	–	–	9.1	0.0	4.7	–	–	–	–	–	–
107.0	50.0	–	–	–	0.0	71.3	15.2	–	–	–	–	–	–
107.0	55.0	–	–	–	13.5	20.3	13.9	–	–	–	–	–	–
107.0	60.0	–	–	–	8.4	6.5	11.2	–	–	–	–	–	–

TABLE 4. (cont.)

Trachurus symmetricus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	65.0	-	-	-	-	-	63.4	-	-	-	-	-	-
107.0	70.0	-	-	-	0.0	35.9	17.8	-	-	-	-	-	-
107.0	80.0	-	-	-	72.8	19.7	-	-	-	-	-	-	-
107.0	90.0	-	-	-	36.2	12.7	-	-	-	-	-	-	-
110.0	35.0	-	0.0	11.5	0.0	27.2	16.6	0.0	5.1	-	0.0	-	0.0
110.0	40.0	-	2.8	25.2	0.0	17.1	21.6	10.5	3.4	-	0.0	-	0.0
110.0	45.0	-	-	-	0.0	34.1	2.9	-	-	-	-	-	-
110.0	50.0	0.0	0.0	137.5	19.2	25.0	0.0	0.0	0.0	-	11.8	-	0.0
110.0	55.0	-	-	-	86.7	29.7	2.9	-	-	-	-	-	-
110.0	60.0	0.0	30.3	48.8	26.6	0.0	2.5	15.9	0.0	-	16.0	-	0.0
110.0	70.0	0.0	-	50.4	22.4	2.8	2.7	-	-	-	-	-	-
110.0	80.0	0.0	-	-	21.0	7.2	-	-	-	-	-	-	-
110.0	90.0	-	-	-	18.4	15.5	-	-	-	-	-	-	-
113.0	30.0	-	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
113.0	35.0	-	0.0	0.0	17.1	5.4	0.0	0.0	0.0	0.0	0.0	-	0.0
113.0	40.0	-	0.0	4.8	4.4	31.3	10.6	0.0	0.0	-	0.0	-	0.0
113.0	45.0	-	-	10.1	2.9	20.9	5.2	-	-	-	-	-	-
113.0	50.0	0.0	0.0	6.8	8.3	18.6	3.0	-	-	-	-	-	-
113.0	55.0	-	-	3.2	5.9	0.0	16.8	-	-	-	-	-	-
113.0	60.0	-	20.5	6.7	5.8	7.1	208.6	-	-	-	-	-	-
113.0	70.0	-	-	-	0.0	49.5	8.1	-	-	-	-	-	-
117.0	35.0	-	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	-	-
117.0	40.0	0.0	0.0	0.0	3.0	0.0	15.8	0.0	0.0	0.0	3.2	-	-
117.0	45.0	-	-	0.0	3.9	0.0	8.4	-	-	-	-	-	-
117.0	50.0	0.0	0.0	0.0	3.3	13.8	2.8	-	-	-	-	-	-
117.0	55.0	-	-	30.0	10.2	0.0	437.9	-	-	-	-	-	-
117.0	60.0	-	6.5	26.6	2.6	0.0	40.5	-	-	-	-	-	-
117.0	65.0	-	-	-	-	-	2.0	-	-	-	-	-	-
117.0	70.0	-	-	-	26.5	15.1	0.0	-	-	-	-	-	-
120.0	25.0	0.0	16.2	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	-	0.0
120.0	30.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	-	0.0
120.0	35.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
120.0	50.0	0.0	0.0	0.0	5.5	17.8	473.9	0.0	0.0	-	0.0	-	0.0
120.0	55.0	-	-	0.0	8.6	0.0	2.4	-	-	-	-	-	-
120.0	60.0	0.0	0.0	0.0	15.7	2.8	2.5	2.5	0.0	-	0.0	-	0.0
120.0	70.0	0.0	0.0	-	1.5	0.0	8.0	2.9	0.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	0.0	2.5	0.0	0.0	0.0	-	12.5	-	0.0
120.0	90.0	-	-	-	0.0	5.3	5.5	0.0	0.0	-	0.0	-	0.0
123.0	40.0	-	0.0	0.0	0.0	0.0	89.4	0.0	0.0	-	0.0	-	0.0
123.0	45.0	-	0.0	0.0	0.0	30.9	0.0	0.0	0.0	-	-	-	-
123.0	50.0	-	0.0	0.0	0.0	48.6	11.9	0.0	0.0	-	0.0	-	0.0
123.0	55.0	-	-	1.4	0.0	8.5	161.8	-	-	-	-	-	-
123.0	60.0	-	-	0.0	0.0	4.6	13.4	-	-	-	-	-	-
127.0	40.0	-	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	-	0.0
127.0	45.0	-	0.0	0.0	0.0	9.9	0.0	0.0	0.0	-	-	-	-
127.0	50.0	-	0.0	0.0	0.0	4.2	13.7	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Trachurus symmetricus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	60.0	–	–	0.0	0.0	2.9	0.0	–	–	–	–	–	–
130.0	45.0	–	0.0	0.0	0.0	3.4	8.5	0.0	0.0	–	–	–	–
130.0	50.0	–	0.0	0.0	0.0	23.8	5.7	0.0	0.0	–	0.0	–	0.0
130.0	55.0	–	–	0.0	0.0	0.0	12.3	–	–	–	–	–	–
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.2	–	0.0
133.0	35.0	–	–	1.4	0.0	0.0	0.0	0.0	0.0	–	–	–	–
133.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	–	0.0	–	0.0
133.0	50.0	0.0	–	0.0	0.0	2.7	0.0	–	–	–	–	–	–
137.0	50.0	0.0	–	0.0	0.0	0.0	2.4	–	–	–	–	–	–

Sciaenidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	51.0	13.7	18.8	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
81.8	46.0	–	–	–	–	–	–	–	–	0.0	–	0.0	7.3
82.3	47.0	–	–	–	–	–	–	–	–	0.0	0.0	2.6	4.5
83.0	40.0	–	–	–	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	4.7
83.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	6.6
83.0	51.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
85.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	–	0.0	2.4
87.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	46.8	19.7
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	–	0.0	0.0
90.0	30.0	0.0	0.0	0.0	7.5	0.0	0.0	5.9	0.0	–	0.0	–	0.0
93.0	27.0	0.0	0.0	–	0.0	0.0	11.1	0.0	0.0	–	0.0	–	2.3
97.0	30.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	–	0.0	–	19.9
100.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.3
107.0	32.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.2
107.0	35.0	–	–	–	5.4	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	33.0	–	0.0	0.0	0.0	–	0.0	0.0	0.0	–	0.0	–	5.7
113.0	30.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	–	0.0
117.0	26.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	–	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	–	0.0

Serranidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0
85.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	–	0.0	0.0
113.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	–	0.0
120.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	–	0.0	–	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	–	0.0	–	0.0
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	–	0.0	–	0.0
133.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	7.1	–	0.0

TABLE 4. (cont.)

Serranidae (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.6	–	0.0	–	0.0
137.0	30.0	0.0	–	0.0	0.0	0.0	0.0	0.0	29.7	–	–	–	0.0
147.0	20.0	2.0	–	–	–	–	–	–	–	–	–	–	–

Auxis spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	30.0	0.0	–	0.0	0.0	0.0	0.0	0.0	5.4	–	–	–	0.0

Scomber japonicus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	40.0	–	–	–	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93.0	27.0	0.0	0.0	–	0.0	0.0	27.8	0.0	0.0	–	0.0	–	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	–	0.0	–	0.0
97.0	70.0	–	–	–	0.0	0.0	3.0	–	–	–	–	–	–
97.0	90.0	–	–	–	0.0	–	36.8	–	–	–	–	–	–
107.0	32.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	4.0	–	0.0
110.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	10.2	–	0.0	–	0.0
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	–	0.0	–	0.0
113.0	45.0	–	–	0.0	0.0	8.9	0.0	–	–	–	–	–	–
113.0	60.0	–	0.0	3.4	1.5	0.0	0.0	–	–	–	–	–	–
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	–	–
117.0	50.0	0.0	0.0	0.0	0.0	5.5	0.0	–	–	–	–	–	–
117.0	55.0	–	–	0.0	0.0	0.0	61.2	–	–	–	–	–	–
120.0	25.0	0.0	32.5	0.0	1.8	0.0	0.0	–	0.0	1.2	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	16.3	0.0	0.0	17.4	16.2	–	0.0
120.0	31.0	–	–	–	–	–	–	–	–	2.3	–	–	–
120.0	35.0	0.0	0.0	0.0	1.6	0.0	4.9	0.0	3.1	1.9	13.6	–	0.0
120.0	40.0	–	–	0.0	4.2	0.0	5.3	–	–	–	–	–	–
120.0	43.0	–	–	–	–	–	–	–	–	2.4	–	–	–
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	–	0.0	–	0.0
120.0	50.0	0.0	0.0	0.0	0.0	35.5	157.9	0.0	7.1	–	0.0	–	0.0
120.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	–	0.0	–	0.0
121.0	30.0	–	–	–	–	–	–	–	–	5.8	–	–	–
121.0	34.0	–	–	–	–	–	–	–	–	4.3	–	–	–
121.0	41.0	–	–	–	–	–	–	–	–	2.7	–	–	–
121.1	26.0	–	–	–	–	–	–	–	–	2.4	–	–	–
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	14.0	0.0	–	0.0	–	0.0
123.0	45.0	–	0.0	1.3	0.0	0.0	0.0	0.0	3.8	–	–	–	–
123.0	50.0	–	0.0	15.8	0.0	18.2	6.0	0.0	3.1	–	0.0	–	0.0
123.0	55.0	–	–	0.0	0.0	0.0	2.9	–	–	–	–	–	–
127.0	34.0	0.0	0.0	8.7	3.2	0.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0	40.0	–	0.0	0.0	57.2	0.0	4.7	4.9	2.9	–	0.0	–	0.0

TABLE 4. (cont.)

Scomber japonicus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	45.0	–	0.0	5.7	0.0	145.7	0.0	0.0	0.0	–	–	–	–
127.0	50.0	–	0.0	3.0	15.8	0.0	0.0	1.9	0.0	–	0.0	–	0.0
127.0	60.0	–	–	0.0	5.5	0.0	0.0	–	–	–	–	–	–
130.0	30.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0	–	7.9
130.0	35.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	32.0	–	0.0	–	0.0
130.0	40.0	0.0	0.0	8.0	0.0	0.0	0.0	4.6	0.0	–	0.0	–	0.0
130.0	45.0	–	0.0	0.0	0.0	13.5	0.0	0.0	0.0	–	–	–	–
130.0	50.0	–	0.0	6.1	10.9	29.0	5.7	0.0	0.0	–	0.0	–	0.0
130.0	55.0	–	–	0.0	0.0	0.0	7.4	–	–	–	–	–	–
133.0	25.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	2.0	–	25.6	–	1.9
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.5	–	0.0	–	0.0
133.0	35.0	–	–	0.0	0.0	0.0	6.1	0.0	12.6	–	–	–	–
133.0	45.0	–	–	0.0	2.9	0.0	0.0	–	–	–	–	–	–
133.0	55.0	–	–	0.0	3.0	2.0	–	–	–	–	–	–	–
133.0	60.0	–	–	0.0	9.2	0.0	–	–	–	–	–	–	–
137.0	23.0	2.1	0.0	0.0	0.0	0.0	0.0	9.4	59.5	–	0.0	–	11.5
137.0	30.0	0.0	–	1.2	0.0	0.0	0.0	0.0	18.9	–	–	–	0.0
137.0	35.0	–	–	1.2	2.9	0.0	2.5	–	–	–	–	–	–
140.0	30.0	2.0	–	–	–	–	–	–	–	–	–	–	–
143.0	35.0	2.3	–	–	–	–	–	–	–	–	–	–	–
147.0	20.0	4.0	–	–	–	–	–	–	–	–	–	–	–
147.0	25.0	2.6	–	–	–	–	–	–	–	–	–	–	–
150.0	30.0	10.9	–	–	–	–	–	–	–	–	–	–	–
150.0	40.0	4.8	–	–	–	–	–	–	–	–	–	–	–

Trichiuridae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	40.0	–	0.0	2.4	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	–	0.0	–	18.7
120.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	32.3
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0	–	89.1
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	49.8
123.0	45.0	–	0.0	0.0	0.0	0.0	0.0	0.0	3.8	–	–	–	–
123.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	6.7
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	7.1
130.0	40.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	1.9
133.0	40.0	2.2	2.8	0.0	0.0	0.0	0.0	0.0	3.2	–	0.0	–	0.0
137.0	55.0	–	–	2.6	0.0	0.0	–	–	–	–	–	–	–
147.0	30.0	2.4	–	–	–	–	–	–	–	–	–	–	–

TABLE 4. (cont.)

Sphyraena argentea

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
85.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	–	0.0	0.0
115.0	35.0	–	–	–	–	–	–	–	–	2.2	–	–	–
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	–	0.0	–	0.0
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.0	–	0.0	–	0.0
137.0	30.0	0.0	–	0.0	0.0	0.0	0.0	0.0	2.7	–	–	–	0.0

Icichthys lockingtoni

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	–	–	–	0.0	2.8	0.0	0.0	0.0	–	–	–	–
60.0	60.0	–	–	–	0.0	0.0	2.3	0.0	0.0	–	–	–	–
60.0	65.0	–	–	–	–	0.0	11.8	–	–	–	–	–	–
60.0	80.0	–	–	–	0.0	5.2	–	0.0	0.0	–	–	–	–
63.0	55.0	–	–	–	0.0	0.0	0.0	6.2	–	–	–	–	–
67.0	55.0	–	–	–	0.0	–	0.0	8.2	0.0	–	–	–	–
67.0	65.0	–	–	–	–	–	0.0	5.9	0.0	–	–	–	–
70.0	55.0	–	–	–	0.0	–	0.0	0.0	9.1	–	–	–	–
70.0	60.0	–	–	–	0.0	–	0.0	16.7	0.0	–	–	–	–
70.0	65.0	–	–	–	–	0.0	6.2	–	–	–	–	–	–
70.0	70.0	–	–	–	0.0	0.0	10.3	0.0	0.0	–	–	–	–
70.0	90.0	–	–	–	0.0	0.0	2.8	–	–	–	–	–	–
73.0	55.0	–	–	–	–	–	0.0	2.7	–	–	–	–	–
73.0	60.0	–	–	–	0.0	–	4.0	0.0	0.0	–	–	–	–
77.0	60.0	–	–	–	–	3.1	0.0	9.8	–	–	–	–	–
77.0	65.0	–	–	–	0.0	–	0.0	3.1	0.0	–	–	–	–
80.0	51.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	55.0	–	0.0	0.0	0.0	3.3	5.7	0.0	0.0	–	–	–	–
80.0	60.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	–	–	–	–
80.0	65.0	–	–	–	–	–	3.4	–	–	–	–	–	–
80.0	70.0	2.8	21.6	0.0	0.0	0.0	2.7	0.0	0.0	–	–	–	–
80.0	80.0	0.0	3.9	0.0	3.3	6.1	0.0	0.0	0.0	–	–	–	–
80.0	90.0	0.0	–	5.5	0.0	5.6	0.0	0.0	0.0	–	–	–	–
83.0	60.0	0.0	3.3	0.0	0.0	0.0	0.0	40.7	0.0	–	–	0.0	0.0
83.0	65.0	–	–	–	–	–	46.0	–	–	–	–	–	–
83.0	70.0	–	–	–	0.0	0.0	12.8	–	–	–	–	–	–
83.0	80.0	–	–	–	2.7	0.0	18.2	–	–	–	–	–	–
85.0	40.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	4.0	0.0
85.0	60.0	3.2	0.0	0.0	0.0	12.2	0.0	17.3	2.6	–	–	1.9	–
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.6	0.0
87.0	50.0	–	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	0.0
87.0	55.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	–	10.8	0.0
87.0	60.0	0.0	0.0	–	0.0	17.4	0.0	24.4	3.6	0.0	–	2.5	–
87.0	65.0	–	–	–	–	–	9.4	–	–	–	–	–	–
87.0	70.0	–	–	–	0.0	2.0	6.7	–	–	–	–	–	–

TABLE 4. (cont.)

Icichthys lockingtoni (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	28.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	–	–	0.0	–	0.0
90.0	45.0	0.0	0.0	0.0	0.0	0.0	12.6	5.6	0.0	–	0.0	–	0.0
90.0	50.0	–	–	0.0	–	0.0	0.0	6.5	0.0	–	0.0	–	0.0
90.0	53.0	0.0	2.2	–	–	–	–	–	–	–	–	–	–
90.0	55.0	–	–	0.0	0.0	0.0	0.0	8.7	0.0	–	0.0	–	0.0
90.0	60.0	0.0	0.0	0.0	0.0	0.0	6.5	27.5	0.0	–	0.0	–	0.0
90.0	65.0	–	–	–	–	–	13.7	–	–	–	–	–	–
90.0	70.0	0.0	2.5	0.0	0.0	3.8	–	35.0	0.0	–	0.0	–	–
90.0	80.0	3.7	3.3	0.0	0.0	0.0	5.7	–	–	–	–	–	–
93.0	40.0	0.0	12.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
93.0	45.0	–	–	–	0.0	0.0	5.8	0.0	–	–	–	–	–
93.0	50.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	–	0.0	–	6.1
93.0	90.0	–	–	–	3.3	–	0.0	–	–	–	–	–	–
97.0	30.0	1.6	0.0	5.8	0.0	0.0	2.4	0.0	0.0	–	2.3	–	0.0
97.0	40.0	0.0	0.0	3.1	0.0	5.7	0.0	0.0	0.0	–	0.0	–	0.0
97.0	50.0	0.0	0.0	–	0.0	0.0	20.5	6.2	0.0	–	0.0	–	9.7
97.0	60.0	0.0	3.2	–	0.0	0.0	0.0	–	–	–	–	–	–
97.0	90.0	–	–	–	3.4	–	0.0	–	–	–	–	–	–
100.0	40.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	–	5.4	–	0.0
100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	–	34.7	–	0.0
100.0	55.0	–	–	–	3.5	0.0	4.6	–	3.3	–	–	–	–
100.0	60.0	0.0	0.0	2.7	5.7	0.0	7.1	0.0	3.6	–	2.7	–	0.0
100.0	65.0	–	–	–	–	–	6.6	–	–	–	–	–	–
100.0	70.0	0.0	6.2	8.7	0.0	0.0	4.7	0.0	3.3	–	0.0	–	0.0
100.0	80.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	0.0
100.0	90.0	3.1	–	–	0.0	0.0	0.0	–	–	–	–	–	–
103.0	40.0	–	–	–	0.0	0.0	0.0	0.0	0.0	–	10.2	–	0.0
103.0	55.0	–	–	–	0.0	0.0	4.2	–	–	–	–	–	–
103.0	70.0	–	–	–	0.0	0.0	6.1	–	–	–	–	–	–
105.0	32.0	0.0	0.0	6.0	–	–	–	–	–	–	–	–	–
107.0	40.0	–	–	–	0.0	0.0	18.7	0.0	0.0	–	0.0	–	0.0
107.0	50.0	–	–	–	0.0	0.0	10.1	–	–	–	–	–	–
107.0	60.0	–	–	–	0.0	0.0	2.2	–	–	–	–	–	–
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	–	0.0	–	0.0
113.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	–	0.0

Peprilus simillimus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	0.0	–	0.0	–	0.0
93.0	27.0	0.0	0.0	–	0.0	0.0	0.0	2.1	0.0	–	0.0	–	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	–	0.0	–	0.0
110.0	33.0	–	0.0	0.0	0.0	–	0.0	2.3	0.0	–	0.0	–	0.0
113.0	40.0	–	0.0	0.0	0.0	3.1	0.0	0.0	0.0	–	0.0	–	0.0
113.0	45.0	–	–	0.0	0.0	6.0	0.0	–	–	–	–	–	–

TABLE 4. (cont.)

Peprilus simillimus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	26.0	–	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	2.9	–	0.0
117.0	30.0	–	0.0	0.0	0.0	0.0	0.0	5.6	6.4	0.0	0.0	–	0.0
117.0	35.0	–	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	–	–
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	–	–
117.0	50.0	0.0	0.0	0.0	0.0	0.0	8.3	–	–	–	–	–	–
120.0	25.0	0.0	0.0	0.0	0.9	0.0	97.4	–	0.0	0.0	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	4.0	0.0	16.3	42.0	0.0	0.0	0.0	–	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	27.2	83.6	0.0	0.0	0.0	–	0.0
120.0	45.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.0	–	0.0	–	0.0
120.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	–	0.0	–	0.0
123.0	37.0	0.0	0.0	1.3	0.0	0.0	0.0	–	0.0	–	0.0	–	0.0
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	4.0	0.0	–	0.0	–	0.0
123.0	45.0	–	0.0	0.0	0.0	0.0	0.0	0.0	3.8	–	–	–	–
127.0	45.0	–	0.0	0.0	0.0	0.0	0.0	2.6	0.0	–	–	–	–
130.0	55.0	–	–	0.0	0.0	0.0	17.2	–	–	–	–	–	–
137.0	30.0	0.0	–	0.0	3.0	0.0	0.0	0.0	0.0	–	–	–	0.0

Tetragonurus cuvieri

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	145.0	–	–	–	0.0	5.4	–	–	–	–	–	–	–
80.0	153.0	–	–	–	–	3.0	–	–	–	–	–	–	–
90.0	90.0	2.5	–	0.0	0.0	0.0	0.0	–	–	–	–	–	–
93.0	40.0	0.0	0.0	–	0.0	0.0	0.0	0.0	0.0	–	2.2	–	0.0
97.0	35.0	–	–	0.0	0.0	0.0	0.0	0.0	0.0	–	5.6	–	0.0
97.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	5.9	–	0.0
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	6.4	–	0.0
137.0	30.0	0.0	–	0.0	3.0	0.0	0.0	0.0	0.0	–	–	–	0.0

Chiasmodontidae

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	80.0	6.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	–	–	–	0.0
100.0	90.0	3.1	–	–	0.0	0.0	0.0	–	–	–	–	–	–
103.0	70.0	–	–	–	2.9	0.0	0.0	–	–	–	–	–	–
105.0	70.0	0.0	–	5.4	–	–	–	–	–	–	–	–	–
110.0	50.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	70.0	0.0	–	0.0	3.2	0.0	0.0	–	–	–	–	–	–
113.0	35.0	–	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
113.0	40.0	–	0.0	0.0	3.2	0.0	0.0	0.0	0.0	–	0.0	–	0.0
113.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
117.0	70.0	–	–	–	1.7	0.0	0.0	–	–	–	–	–	–
120.0	70.0	0.0	0.0	–	0.0	0.0	1.6	0.0	0.0	–	0.0	–	0.0
120.0	80.0	0.0	0.0	–	1.3	0.0	0.0	0.0	0.0	–	0.0	–	0.0

TABLE 4. (cont.)

Chiasmodontidae (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	55.0	-	-	1.4	0.0	0.0	0.0	-	-	-	-	-	-
123.0	60.0	-	-	0.0	0.0	2.3	0.0	-	-	-	-	-	-
133.0	40.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0

Pleuronectiformes

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0	50.0	-	-	-	0.0	-	0.0	-	6.6	-	-	-	-
70.0	70.0	-	-	-	0.0	0.0	0.0	5.9	0.0	-	-	-	-
73.0	50.0	-	-	-	0.0	-	0.0	0.0	2.1	-	-	-	-
81.8	46.0	-	-	-	-	-	-	-	-	5.8	-	0.0	0.0
82.3	47.0	-	-	-	-	-	-	-	-	70.2	0.0	0.0	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0
85.0	39.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	-	0.0	7.1
85.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5	0.0	0.0	-	0.0	0.0
85.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	-	0.0	0.0
85.0	55.0	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-
87.0	35.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
87.0	45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.5	-	0.0	0.0
90.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	-	-	0.0	-	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	-	0.0	-	0.0
90.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	-	0.0	-	0.0
93.0	27.0	0.0	0.0	-	12.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
93.0	35.0	-	-	-	3.0	0.0	0.0	0.0	0.0	-	-	-	-
97.0	35.0	-	-	2.9	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	30.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	40.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.3
103.0	35.0	-	-	-	0.0	0.0	0.0	0.0	0.0	-	0.0	-	5.5
110.0	35.0	-	0.0	0.0	0.0	0.0	0.0	99.7	0.0	-	0.0	-	0.0
110.0	40.0	-	0.0	0.0	4.2	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	30.0	-	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	-	0.0
113.0	35.0	-	0.0	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.0	-	0.0
117.0	30.0	-	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
118.3	33.0	-	-	-	-	-	-	-	-	-	-	-	5.3
118.5	25.0	-	-	-	-	-	-	-	-	78.5	-	-	-
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	0.0	-	2.9
121.0	41.0	-	-	-	-	-	-	-	-	19.1	-	-	-
123.0	45.0	-	0.0	0.0	2.5	0.0	0.0	0.0	0.0	-	-	-	-
127.0	34.0	0.0	6.5	37.7	0.0	0.0	0.0	0.0	5.6	-	0.0	-	0.0
127.0	40.0	-	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	-	0.0
130.0	30.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	-	33.5
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.5	-	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	4.1	-	2.5
133.0	30.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	40.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Pleuronectiformes (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	30.0	0.0	–	9.3	0.0	0.0	0.0	0.0	129.6	–	–	–	0.0
137.0	35.0	–	–	0.0	5.9	0.0	0.0	–	–	–	–	–	–
150.0	40.0	2.4	–	–	–	–	–	–	–	–	–	–	–

Bothus spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	30.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	3.3	–	0.0

Citharichthys spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	–	–	–	0.0	0.0	0.0	0.0	20.3	–	–	–	–
60.0	60.0	–	–	–	0.0	0.0	0.0	0.0	9.8	–	–	–	–
67.0	50.0	–	–	–	0.0	–	0.0	–	2.2	–	–	–	–
67.0	55.0	–	–	–	0.0	–	0.0	0.0	23.1	–	–	–	–
67.0	65.0	–	–	–	–	–	0.0	0.0	45.3	–	–	–	–
70.0	51.0	–	–	–	0.0	2.8	0.0	0.0	–	–	–	–	–
70.0	55.0	–	–	–	0.0	–	0.0	0.0	136.8	–	–	–	–
70.0	60.0	–	–	–	0.0	–	0.0	0.0	16.8	–	–	–	–
70.0	70.0	–	–	–	0.0	2.6	0.0	0.0	0.0	–	–	–	–
70.0	80.0	–	–	–	–	0.0	0.0	0.0	22.0	–	–	–	–
73.0	60.0	–	–	–	0.0	–	0.0	0.0	270.6	–	–	–	–
77.0	50.0	–	–	–	0.0	0.0	0.0	0.0	7.6	–	–	–	–
77.0	55.0	–	–	–	4.3	0.0	0.0	0.0	12.7	–	–	–	–
77.0	65.0	–	–	–	0.0	–	0.0	0.0	24.6	–	–	–	–
80.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	–	–	–	–
80.0	55.0	–	0.0	5.5	24.2	0.0	0.0	0.0	12.6	–	–	–	–
80.0	60.0	30.5	0.0	9.3	0.0	3.5	0.0	0.0	14.8	–	–	–	–
80.0	65.0	–	–	–	–	–	3.4	–	–	–	–	–	–
80.0	70.0	11.3	8.6	3.6	0.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0	80.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	6.4	–	–	–	–
80.0	90.0	2.3	–	0.0	0.0	5.6	0.0	0.0	0.0	–	–	–	–
80.0	100.0	11.2	–	2.5	0.0	0.0	0.0	0.0	0.0	–	–	–	–
81.8	46.0	–	–	–	–	–	–	–	–	0.0	–	35.0	48.4
82.3	47.0	–	–	–	–	–	–	–	–	0.0	64.5	5.2	4.5
83.0	40.0	–	–	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
83.0	43.0	0.0	5.2	0.0	0.0	0.0	6.5	27.1	17.8	20.5	8.6	13.1	21.7
83.0	48.0	0.0	1.8	0.0	0.0	5.6	0.0	0.0	0.0	29.5	7.6	9.4	10.0
83.0	51.0	2.8	0.0	0.0	4.6	1.5	6.3	0.0	24.8	5.8	1.4	13.3	10.6
83.0	55.0	5.6	0.0	6.5	13.4	1.2	0.0	6.0	15.9	23.6	30.2	78.1	35.5
83.0	60.0	0.0	13.2	7.4	12.0	1.4	0.0	0.0	0.0	–	–	21.2	20.6
85.0	39.0	0.0	0.0	4.4	1.3	0.0	12.4	0.0	45.0	29.8	–	24.0	0.0
85.0	40.0	4.4	3.8	6.6	2.8	0.0	11.5	0.0	51.0	14.6	–	34.4	50.7

TABLE 4. (cont.)

Citharichthys spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
85.0	45.0	11.9	21.8	0.0	5.6	0.0	0.0	0.0	10.4	11.6	-	5.8	2.5
85.0	50.0	15.7	0.0	0.0	3.8	0.0	0.0	6.6	0.0	28.4	-	7.9	12.8
85.0	55.0	6.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0	37.8	-	3.8	-
85.0	60.0	6.3	4.0	42.6	0.0	0.0	0.0	0.0	2.6	-	-	14.8	-
87.0	35.0	0.0	0.0	11.8	0.0	3.3	0.0	0.0	24.0	11.0	-	32.4	4.9
87.0	40.0	10.9	23.7	10.4	3.0	3.0	0.0	19.8	111.9	27.7	-	12.8	15.1
87.0	45.0	-	11.4	6.0	0.0	2.9	0.0	0.0	38.6	0.0	-	7.6	12.6
87.0	50.0	-	4.0	3.9	2.6	0.0	0.0	0.0	12.0	5.1	-	-	14.3
87.0	55.0	2.5	0.0	11.0	0.0	0.0	0.0	0.0	12.1	8.6	-	43.1	7.6
87.0	60.0	3.1	6.5	-	3.8	0.0	0.0	0.0	14.6	2.1	-	37.2	-
87.0	90.0	-	-	-	0.0	2.6	0.0	-	-	-	-	-	-
90.0	28.0	2.0	0.0	3.0	0.0	0.0	0.0	2.7	-	-	61.8	-	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	15.4	-	11.6	-	9.3
90.0	35.0	-	-	-	-	16.8	-	-	-	-	-	-	-
90.0	37.0	0.0	0.0	3.0	0.0	-	0.0	11.0	0.0	-	2.9	-	0.0
90.0	45.0	2.8	0.0	6.8	0.0	0.0	12.6	0.0	0.0	-	2.9	-	18.9
90.0	50.0	-	-	9.6	-	5.8	0.0	3.3	0.0	-	16.3	-	0.0
90.0	55.0	-	-	0.0	0.0	8.1	6.3	17.4	6.4	-	3.2	-	8.0
90.0	60.0	0.0	17.8	0.0	0.0	0.0	0.0	27.5	0.0	-	0.0	-	17.6
90.0	70.0	0.0	0.0	13.5	0.0	3.8	-	0.0	0.0	-	0.0	-	-
90.0	110.0	-	-	-	1.8	0.0	-	-	-	-	-	-	-
93.0	27.0	2.3	0.0	-	0.0	0.0	0.0	19.1	5.2	-	0.0	-	0.0
93.0	30.0	5.6	0.0	0.0	0.0	3.8	10.6	14.9	6.7	-	0.0	-	5.1
93.0	35.0	-	-	-	0.0	16.7	6.6	12.6	0.0	-	-	-	-
93.0	40.0	0.0	0.0	-	2.9	0.0	0.0	2.5	0.0	-	0.0	-	2.9
93.0	45.0	-	-	-	6.3	4.3	0.0	0.0	-	-	-	-	-
93.0	50.0	0.0	0.0	3.2	0.0	5.3	0.0	0.0	0.0	-	0.0	-	9.2
93.0	70.0	-	-	-	0.0	-	10.6	-	-	-	-	-	-
97.0	30.0	1.6	0.0	2.9	0.0	1.9	19.0	0.0	7.4	-	4.5	-	5.7
97.0	32.0	6.8	0.0	-	-	-	-	-	-	-	-	-	-
97.0	35.0	-	-	0.0	0.0	0.0	6.9	6.0	4.7	-	0.0	-	2.6
97.0	40.0	6.1	3.0	3.1	0.0	2.8	3.2	0.0	0.0	-	0.0	-	2.6
97.0	45.0	-	-	-	0.0	0.0	0.0	3.3	-	-	-	-	-
97.0	50.0	3.2	0.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	29.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	-	0.0	-	2.2
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	10.1	-	0.0	-	2.7
100.0	35.0	-	-	-	0.0	0.0	28.7	0.0	0.0	-	-	-	-
100.0	40.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	7.2	-	2.7	-	0.0
100.0	45.0	-	-	-	0.0	0.0	12.2	6.6	-	-	-	-	-
100.0	50.0	12.6	0.0	0.0	0.0	0.0	12.3	0.0	3.1	-	0.0	-	0.0
100.0	55.0	-	-	-	0.0	0.0	4.6	-	0.0	-	-	-	-
100.0	60.0	0.0	3.3	0.0	2.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	0.0	-	0.0	-	0.0
103.0	30.0	-	-	-	-	0.0	0.0	2.1	0.0	-	37.1	-	0.0
103.0	35.0	-	-	-	0.0	0.0	0.0	51.3	0.0	-	11.4	-	0.0
103.0	40.0	-	-	-	0.0	3.0	0.0	11.8	0.0	-	0.0	-	2.5

TABLE 4. (cont.)

Citharichthys spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
105.0	35.0	0.0	0.0	2.1	–	–	–	–	–	–	–	–	–
105.0	40.0	3.5	0.0	2.6	–	–	–	–	–	–	–	–	–
107.0	32.0	–	–	–	9.2	6.1	19.8	0.0	0.0	–	20.2	–	2.2
107.0	35.0	–	–	–	5.4	0.0	37.0	8.6	40.8	–	139.2	–	0.0
107.0	40.0	–	–	–	0.0	0.0	46.8	25.9	0.0	–	35.2	–	4.8
110.0	33.0	–	0.0	0.0	0.0	–	18.7	16.2	25.7	–	14.7	–	0.0
110.0	35.0	–	0.0	0.0	24.1	0.0	0.0	0.0	15.2	–	51.2	–	0.0
110.0	40.0	–	0.0	2.8	0.0	0.0	0.0	2.6	0.0	–	7.8	–	0.0
110.0	50.0	0.0	0.0	0.0	0.0	0.0	2.8	2.9	0.0	–	27.5	–	2.8
110.0	60.0	0.0	0.0	0.0	0.0	0.0	2.5	8.0	0.0	–	0.0	–	8.1
110.0	65.0	–	–	–	–	–	5.7	–	–	–	–	–	–
110.0	70.0	2.1	–	0.0	0.0	0.0	2.7	–	–	–	–	–	–
113.0	30.0	–	4.5	0.0	0.0	0.0	0.0	16.5	9.8	75.5	0.0	–	0.0
113.0	35.0	–	0.0	5.4	1.4	10.7	5.1	4.4	0.0	16.7	27.4	–	0.0
113.0	40.0	–	5.9	7.2	0.0	3.1	2.6	16.1	7.4	–	163.0	–	0.0
113.0	45.0	–	–	0.0	1.8	20.9	0.0	–	–	–	–	–	–
113.0	50.0	0.0	0.0	0.0	2.5	4.7	0.0	–	–	–	–	–	–
113.0	60.0	–	2.6	0.0	1.5	0.0	9.5	–	–	–	–	–	–
115.0	26.0	–	–	–	–	–	–	–	–	71.3	–	–	–
115.0	30.0	–	–	–	–	–	–	–	–	75.2	–	–	–
115.0	35.0	–	–	–	–	–	–	–	–	43.7	–	–	–
117.0	26.0	–	2.4	20.8	19.9	18.0	89.1	40.3	153.2	49.5	8.7	–	3.6
117.0	30.0	–	5.3	0.0	6.7	0.0	63.4	64.8	99.5	345.7	8.2	–	1.9
117.0	35.0	–	0.0	2.9	6.4	4.7	8.1	89.4	9.6	27.6	12.9	–	–
117.0	40.0	6.3	0.0	11.2	1.5	2.7	0.0	2.5	131.4	47.0	6.3	–	–
117.0	45.0	–	–	5.4	0.0	5.8	2.1	–	–	–	–	–	–
117.0	50.0	0.0	0.0	0.0	1.6	13.8	164.0	–	–	–	–	–	–
117.0	55.0	–	–	3.0	0.0	0.0	19.3	–	–	–	–	–	–
117.0	60.0	–	0.0	0.0	1.3	0.0	2.9	–	–	–	–	–	–
118.5	30.0	–	–	–	–	–	–	–	–	36.9	–	–	–
118.5	35.0	–	–	–	–	–	–	–	–	28.0	–	–	–
119.0	42.0	–	–	–	–	–	–	–	–	30.3	–	–	–
120.0	25.0	0.0	0.0	8.8	70.0	22.6	190.2	–	38.7	34.2	8.8	–	0.0
120.0	30.0	2.8	7.2	48.1	31.2	64.8	484.2	355.3	187.1	44.9	18.9	–	1.8
120.0	31.0	–	–	–	–	–	–	–	–	4.7	–	–	–
120.0	35.0	0.0	0.0	42.9	16.9	97.2	123.5	357.2	156.5	0.0	44.3	–	0.0
120.0	40.0	–	–	12.4	2.9	4.0	26.3	–	–	–	–	–	–
120.0	43.0	–	–	–	–	–	–	–	–	40.6	–	–	–
120.0	45.0	2.6	0.0	5.7	6.5	38.6	88.5	5.1	0.0	–	10.8	–	21.4
120.0	50.0	0.0	5.8	0.0	4.2	0.0	26.7	0.0	28.3	–	96.4	–	2.7
120.0	55.0	–	–	0.0	8.4	0.0	0.0	–	–	–	–	–	–
120.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	209.3	–	7.9	–	25.4
120.0	70.0	0.0	0.0	–	0.0	0.0	0.0	0.0	35.0	–	10.8	–	7.2
120.0	90.0	–	–	–	0.0	0.0	1.8	0.0	0.0	–	0.0	–	2.5
121.0	30.0	–	–	–	–	–	–	–	–	15.8	–	–	–
121.0	34.0	–	–	–	–	–	–	–	–	27.4	–	–	–

TABLE 4. (cont.)

Citharichthys spp. (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
121.0	41.0	–	–	–	–	–	–	–	–	24.6	–	–	–
121.1	26.0	–	–	–	–	–	–	–	–	1.2	–	–	–
123.0	37.0	83.3	6.5	26.0	0.0	0.0	2.3	–	0.0	–	14.9	–	20.8
123.0	40.0	–	2.7	12.7	0.0	0.0	34.2	2.0	10.6	–	19.4	–	9.3
123.0	45.0	–	9.1	0.0	5.0	16.7	6.0	21.7	30.6	–	–	–	–
123.0	50.0	–	6.1	2.9	2.8	3.0	0.0	8.9	31.1	–	3.6	–	4.5
123.0	55.0	–	–	5.5	0.0	0.0	0.0	–	–	–	–	–	–
123.0	60.0	–	–	2.8	0.0	0.0	0.0	–	–	–	–	–	–
127.0	34.0	1.5	13.1	20.1	0.0	2.6	6.0	27.6	0.0	–	0.0	–	0.0
127.0	40.0	–	11.2	3.7	0.0	0.0	14.2	12.2	2.9	–	188.7	–	0.0
127.0	45.0	–	2.7	4.1	0.0	2.5	35.7	35.8	0.0	–	–	–	–
127.0	50.0	–	0.0	0.0	4.5	0.0	174.0	24.7	0.0	–	8.0	–	2.7
127.0	55.0	–	–	0.0	2.4	0.0	0.0	–	–	–	–	–	–
130.0	30.0	–	0.0	6.5	27.8	1.6	0.0	–	14.2	–	36.0	–	0.0
130.0	35.0	0.0	0.0	26.2	23.8	0.0	2.5	34.1	0.0	–	7.1	–	7.1
130.0	40.0	0.0	0.0	12.0	2.7	0.0	0.0	4.6	3.6	–	4.1	–	0.0
130.0	45.0	–	0.0	12.1	31.8	13.5	0.0	6.4	0.0	–	–	–	–
130.0	50.0	–	0.0	14.1	0.0	0.0	17.1	2.0	0.0	–	3.7	–	0.0
130.0	55.0	–	–	0.0	0.0	0.0	44.3	–	–	–	–	–	–
130.0	60.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	3.8	–	–	–	0.0
133.0	25.0	0.0	0.0	3.6	1.9	0.0	0.0	15.4	20.2	–	3.2	–	1.9
133.0	30.0	0.0	2.6	8.6	9.6	0.0	0.0	13.2	95.9	–	27.9	–	0.0
133.0	35.0	–	–	40.1	3.2	0.0	0.0	0.0	28.4	–	–	–	–
133.0	40.0	0.0	0.0	0.0	0.0	0.0	3.7	2.3	0.0	–	56.8	–	0.0
133.0	45.0	–	–	1.4	0.0	0.0	3.8	–	–	–	–	–	–
133.0	50.0	0.0	–	0.0	3.7	0.0	0.0	–	–	–	–	–	–
137.0	23.0	4.2	13.3	7.7	1.3	0.0	0.0	18.7	22.3	–	26.7	–	7.6
137.0	30.0	0.0	–	0.0	0.0	0.0	3.1	5.3	0.0	–	–	–	2.0
137.0	35.0	–	–	0.0	0.0	0.0	7.4	–	–	–	–	–	–
137.0	40.0	0.0	–	0.0	2.8	0.0	2.8	–	–	–	–	–	–
137.0	50.0	0.0	–	0.0	0.0	0.0	2.4	–	–	–	–	–	–
137.0	60.0	–	–	0.0	0.0	6.3	–	–	–	–	–	–	–

Hippoglossina stomata

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0
85.0	40.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
100.0	45.0	–	–	–	0.0	0.0	0.0	3.3	–	–	–	–	–
115.0	26.0	–	–	–	–	–	–	–	–	6.5	–	–	–
115.0	30.0	–	–	–	–	–	–	–	–	2.0	–	–	–
117.0	26.0	–	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	–	0.0
117.0	30.0	–	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.6	0.0	–	0.0
118.5	35.0	–	–	–	–	–	–	–	–	1.6	–	–	–

TABLE 4. (cont.)

Hippoglossina stomata (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
119.0	42.0	–	–	–	–	–	–	–	–	2.0	–	–	–
120.0	25.0	0.0	0.0	0.0	3.8	3.8	0.0	–	0.0	3.7	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
120.0	35.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0	–	5.9
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	2.0	2.6	–	0.0	–	3.1
123.0	45.0	–	0.0	0.0	0.0	0.0	0.0	18.0	0.0	–	–	–	–
127.0	34.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.3
127.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.2	–	0.0
130.0	30.0	–	0.0	3.5	0.0	0.0	0.0	–	0.0	–	3.3	–	0.0
130.0	35.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	–	3.5	–	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	–	0.0	–	0.0
133.0	25.0	2.1	0.0	3.5	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
133.0	30.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	4.4	–	3.1	–	0.0
133.0	35.0	–	–	0.0	0.0	0.0	6.1	0.0	0.0	–	–	–	–
133.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.5	–	0.0
133.0	60.0	–	–	0.0	3.1	0.0	–	–	–	–	–	–	–
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	–	0.0	–	0.0
137.0	35.0	–	–	0.0	5.9	0.0	0.0	–	–	–	–	–	–
150.0	25.0	5.3	–	–	–	–	–	–	–	–	–	–	–

Paralichthys californicus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
81.8	46.0	–	–	–	–	–	–	–	–	0.0	–	2.9	0.0
85.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	–	0.0	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	–	0.0	0.0
93.0	27.0	0.0	0.0	–	0.0	0.0	16.7	0.0	0.0	–	0.0	–	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.8
100.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	2.7	–	0.0
110.0	33.0	–	0.0	0.0	0.0	–	0.0	0.0	0.0	–	0.0	–	1.9
113.0	30.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	–	0.0
117.0	26.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	–	0.0
117.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	–	–
120.0	25.0	0.0	0.0	0.0	2.7	0.0	18.6	–	0.0	0.0	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	–	0.0
120.0	40.0	–	–	2.1	0.0	0.0	8.8	–	–	–	–	–	–
123.0	40.0	–	0.0	0.0	0.0	0.0	2.6	0.0	0.0	–	0.0	–	0.0
123.0	45.0	–	0.0	0.0	0.0	0.0	3.0	0.0	0.0	–	–	–	–
127.0	34.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	–	0.0	–	0.0

TABLE 4. (cont.)

Syacium ovale

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	6.2	–	0.0

Xystreurys liolepis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0 30.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	–	0.0
117.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	–	–
118.5 30.0	–	–	–	–	–	–	–	–	2.2	–	–	–
120.0 25.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	1.2	0.0	–	0.0
120.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.5	0.0	–	0.0
120.0 31.0	–	–	–	–	–	–	–	–	2.3	–	–	–
121.0 34.0	–	–	–	–	–	–	–	–	2.9	–	–	–
121.3 31.0	–	–	–	–	–	–	–	–	–	–	–	6.0

Glyptocephalus zachirus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0 53.0	–	–	–	–	–	–	6.9	–	–	–	–	–
73.0 50.0	–	–	–	0.0	–	3.4	0.0	0.0	–	–	–	–
80.0 60.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	–	–	–	–
83.0 48.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.0 55.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	–	0.0	–
87.0 55.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0

Hypsopsetta guttulata

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.8
121.3 31.0	–	–	–	–	–	–	–	–	–	–	–	2.0

Lyopsetta exilis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 60.0	–	–	–	0.0	0.0	2.3	0.0	0.0	–	–	–	–
60.0 80.0	–	–	–	0.0	10.3	–	0.0	0.0	–	–	–	–
60.0 90.0	–	–	–	0.0	12.8	–	0.0	0.0	–	–	–	–
60.0 100.0	–	–	–	–	0.0	–	0.0	3.6	–	–	–	–
67.0 60.0	–	–	–	–	–	5.9	0.0	–	–	–	–	–
70.0 60.0	–	–	–	0.0	–	5.5	0.0	0.0	–	–	–	–
73.0 50.0	–	–	–	0.0	–	0.0	2.3	0.0	–	–	–	–
77.0 55.0	–	–	–	0.0	6.7	0.0	0.0	0.0	–	–	–	–
77.0 60.0	–	–	–	–	3.1	3.1	0.0	–	–	–	–	–

TABLE 4. (cont.)

Lyopsetta exilis (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	65.0	-	-	-	0.0	-	6.8	0.0	0.0	-	-	-	-
80.0	51.0	0.0	3.4	19.9	0.0	0.0	5.3	0.0	0.0	-	-	-	-
80.0	55.0	-	2.5	5.5	0.0	6.6	0.0	0.0	0.0	-	-	-	-
80.0	60.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	-	-	-	-
80.0	65.0	-	-	-	-	-	10.1	-	-	-	-	-	-
83.0	40.0	-	-	-	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	43.0	0.0	2.6	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	48.0	0.0	0.0	0.0	0.0	1.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
83.0	51.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	0.0	0.0	0.0	0.0
83.0	60.0	6.1	0.0	0.0	0.0	4.1	0.0	0.0	0.0	-	-	0.0	0.0
85.0	39.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
85.0	40.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	-	0.0	0.0
85.0	45.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
85.0	50.0	0.0	0.0	0.0	5.0	5.3	0.0	0.0	0.0	0.0	-	0.0	0.0
85.0	55.0	3.4	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	-	0.0	-
85.0	60.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	-	-	0.0	-
87.0	35.0	2.7	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	-	0.0	0.0
87.0	45.0	-	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
90.0	28.0	0.0	0.0	26.7	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	50.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	29.0	0.0	0.0	10.2	2.8	5.3	0.0	0.0	0.0	-	0.0	-	0.0
100.0	30.0	0.0	0.0	0.0	6.3	10.2	0.0	0.0	0.0	-	0.0	-	0.0
105.0	35.0	0.0	0.0	2.1	-	-	-	-	-	-	-	-	-
107.0	32.0	-	-	-	9.2	0.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0	35.0	-	-	-	2.7	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	33.0	-	0.0	2.1	17.8	-	0.0	2.3	0.0	-	0.0	-	0.0
117.0	26.0	-	0.0	0.0	0.0	36.0	0.0	0.0	0.0	0.0	0.0	-	0.0
117.0	30.0	-	0.0	0.0	0.0	0.0	12.2	0.0	3.2	0.0	0.0	-	0.0
117.0	35.0	-	0.0	14.4	10.5	0.0	0.0	0.0	0.0	0.0	0.0	-	-
117.0	50.0	0.0	0.0	0.0	1.6	0.0	0.0	-	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	16.9	0.0	-	0.0	0.0	0.0	-	0.0
120.0	30.0	0.0	0.0	0.0	1.3	5.4	32.6	0.0	0.0	0.0	0.0	-	0.0
120.0	35.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
120.0	45.0	0.0	2.8	0.0	3.2	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	50.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0

Microstomus pacificus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	70.0	-	-	-	0.0	5.5	-	0.0	5.9	-	-	-	-
70.0	70.0	-	-	-	5.0	0.0	0.0	0.0	0.0	-	-	-	-
70.0	80.0	-	-	-	-	0.0	2.9	0.0	0.0	-	-	-	-
77.0	50.0	-	-	-	6.0	0.0	0.0	0.0	0.0	-	-	-	-
77.0	65.0	-	-	-	0.0	-	0.0	3.1	0.0	-	-	-	-

TABLE 4. (cont.)

Microstomus pacificus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	70.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	–	–	–	–
80.0	80.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	–	–	–	–
83.0	70.0	–	–	–	0.0	0.0	6.4	–	–	–	–	–	–
90.0	55.0	–	–	0.0	0.0	5.4	0.0	0.0	0.0	–	0.0	–	0.0
90.0	100.0	–	–	–	2.4	0.0	–	–	–	–	–	–	–
97.0	65.0	–	–	–	–	–	2.8	–	–	–	–	–	–
100.0	35.0	–	–	–	0.0	0.0	4.1	0.0	0.0	–	–	–	–
100.0	55.0	–	–	–	0.0	0.0	4.6	–	0.0	–	–	–	–
103.0	40.0	–	–	–	0.0	6.0	0.0	0.0	0.0	–	0.0	–	0.0
113.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	–	0.0
117.0	40.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	–	–

Parophrys vetulus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	–	–	–	0.0	0.0	0.0	2.9	0.0	–	–	–	–
70.0	51.0	–	–	–	0.0	0.0	0.0	3.2	–	–	–	–	–
73.0	50.0	–	–	–	0.0	–	0.0	2.3	0.0	–	–	–	–
80.0	51.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
83.0	43.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	48.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0	51.0	0.0	0.0	0.0	0.0	3.3	6.3	0.0	0.0	0.0	0.0	0.0	0.0
85.0	39.0	0.0	0.0	0.0	3.5	2.5	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	40.0	0.0	0.0	0.0	7.2	1.6	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	45.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0	35.0	0.0	0.0	0.0	2.9	3.3	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0	45.0	–	0.0	0.0	9.1	0.0	0.0	0.0	0.0	–	0.0	–	0.0
90.0	28.0	0.0	0.0	11.9	0.0	0.0	0.0	0.0	–	–	0.0	–	0.0
90.0	30.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
93.0	27.0	0.0	0.0	–	0.0	2.3	0.0	0.0	0.0	–	0.0	–	0.0
93.0	30.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	–	0.0	–	0.0
97.0	30.0	0.0	6.2	20.3	0.0	3.7	0.0	0.0	0.0	–	0.0	–	0.0
100.0	29.0	0.0	8.5	5.1	2.8	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	30.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
103.0	30.0	–	–	–	–	0.0	0.0	0.0	0.0	–	3.4	–	0.0
105.0	32.0	0.0	0.0	6.0	–	–	–	–	–	–	–	–	–
107.0	32.0	–	–	–	3.1	3.1	0.0	0.0	0.0	–	0.0	–	0.0
110.0	33.0	–	0.0	53.8	0.0	–	0.0	2.3	0.0	–	0.0	–	0.0
113.0	35.0	–	0.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
113.0	50.0	0.0	0.0	0.0	2.5	0.0	0.0	–	–	–	–	–	–
115.0	35.0	–	–	–	–	–	–	–	–	1.1	–	–	–
117.0	26.0	–	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
117.0	30.0	–	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
117.0	45.0	–	–	0.0	2.7	0.0	0.0	–	–	–	–	–	–
120.0	25.0	0.0	97.4	0.0	0.0	0.0	0.0	–	0.0	0.0	0.0	–	0.0

TABLE 4. (cont.)

Parophrys vetulus (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	–	0.0
120.0	40.0	–	–	6.2	1.4	0.0	0.0	–	–	–	–	–	–

Pleuronichthys spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	60.0	–	–	–	0.0	–	0.0	0.0	8.2	–	–	–	–
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
85.0	50.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
117.0	26.0	–	0.0	0.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	–	0.0
120.0	25.0	0.0	0.0	0.0	0.0	1.9	0.0	–	0.0	0.0	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	–	0.0
120.0	45.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	–	0.0	–	0.0
127.0	34.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
130.0	45.0	–	0.0	1.7	0.0	0.0	0.0	0.0	0.0	–	–	–	–

Pleuronichthys coenosus

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0
83.0	60.0	0.0	0.0	7.4	0.0	0.0	0.0	0.0	7.3	–	–	0.0	0.0
85.0	40.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
85.0	45.0	0.0	0.0	6.6	1.3	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0	45.0	–	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	–	0.0	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	–	0.0	–	0.0
90.0	37.0	0.0	0.0	3.0	0.0	–	0.0	0.0	0.0	–	0.0	–	0.0
113.0	35.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	–	0.0
117.0	50.0	0.0	0.0	0.0	0.0	2.8	0.0	–	–	–	–	–	–
118.5	35.0	–	–	–	–	–	–	–	–	1.6	–	–	–

Pleuronichthys decurrens

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	60.0	–	–	–	0.0	–	0.0	0.0	8.2	–	–	–	–
85.0	60.0	0.0	4.0	6.1	0.0	0.0	0.0	0.0	0.0	–	–	0.0	–
113.0	50.0	0.0	0.0	0.0	0.0	4.7	0.0	–	–	–	–	–	–

TABLE 4. (cont.)

Pleuronichthys ritteri

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	26.0	–	0.0	0.0	0.0	0.0	2.6	0.0	2.9	1.1	0.0	–	0.0
117.0	30.0	–	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	–	0.0
120.0	35.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	6.3	0.0	0.0	–	0.0
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.5	–	0.0
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	–	0.0	–	0.0

Pleuronichthys verticalis

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	40.0	–	–	–	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0
85.0	39.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	–	0.0	0.0
90.0	30.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
93.0	27.0	0.0	0.0	–	0.0	0.0	5.6	0.0	0.0	–	0.0	–	0.0
107.0	35.0	–	–	–	2.7	0.0	0.0	0.0	0.0	–	0.0	–	0.0
110.0	33.0	–	0.0	0.0	0.0	–	0.0	0.0	5.1	–	0.0	–	0.0
110.0	35.0	–	0.0	0.0	4.8	0.0	0.0	0.0	0.0	–	0.0	–	0.0
113.0	30.0	–	13.5	0.0	0.0	0.0	7.0	0.0	0.0	28.9	0.0	–	2.8
115.0	26.0	–	–	–	–	–	–	–	–	8.6	–	–	–
115.0	30.0	–	–	–	–	–	–	–	–	4.0	–	–	–
117.0	26.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	–	0.0
117.0	30.0	–	0.0	0.0	0.0	0.0	0.0	0.0	25.7	5.4	0.0	–	0.0
118.5	30.0	–	–	–	–	–	–	–	–	2.2	–	–	–
120.0	25.0	0.0	0.0	0.0	2.9	0.0	9.3	–	0.0	0.0	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0	0.0	–	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	–	0.0
120.0	40.0	–	–	0.0	0.0	0.0	1.8	–	–	–	–	–	–
123.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.6	–	0.0	–	0.0

Symphurus spp.

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	–	0.0	0.0
113.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	9.8	–	0.0
115.0	35.0	–	–	–	–	–	–	–	–	3.4	–	–	–
118.3	33.0	–	–	–	–	–	–	–	–	–	–	–	5.3
118.5	30.0	–	–	–	–	–	–	–	–	2.2	–	–	–
119.0	42.0	–	–	–	–	–	–	–	–	12.1	–	–	–
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	1.2	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.1	0.0	–	0.0
120.0	43.0	–	–	–	–	–	–	–	–	9.6	–	–	–
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	–	7.2	–	5.3
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	–	3.6	–	0.0

TABLE 4. (cont.)

Symphurus spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	–	0.0	–	4.6
120.0 70.0	0.0	0.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.4
121.0 30.0	–	–	–	–	–	–	–	–	25.9	–	–	–
121.0 34.0	–	–	–	–	–	–	–	–	2.9	–	–	–
123.0 37.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.5	–	0.0
123.0 40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	6.5	–	3.1
123.0 50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	7.3	–	4.5
127.0 40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	2.9	–	6.7	–	0.0
130.0 30.0	–	0.0	0.0	0.0	0.0	0.0	–	0.0	–	3.3	–	0.0
130.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.5	–	2.4
130.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	4.1	–	0.0
133.0 25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	3.7
133.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.1	–	1.8
133.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.7
137.0 23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	1.9

Disintegrated fish larva

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 70.0	–	–	–	5.0	0.0	0.0	0.0	0.0	–	–	–	–
80.0 80.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	–	–	–	–
80.0 100.0	0.0	–	0.0	0.0	1.3	0.0	0.0	0.0	–	–	–	–
80.0 153.0	–	–	–	–	3.0	–	–	–	–	–	–	–
80.0 160.0	–	–	–	0.0	3.0	–	–	–	–	–	–	–
83.0 43.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
83.0 51.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0 55.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.0 90.0	–	–	–	0.0	17.2	0.0	–	–	–	–	–	–
85.0 50.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0 45.0	–	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	–	0.0	0.0
87.0 50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	4.8
90.0 30.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
90.0 35.0	–	–	–	–	12.6	–	–	–	–	–	–	–
90.0 45.0	0.0	0.0	0.0	0.0	19.5	0.0	0.0	0.0	–	0.0	–	0.0
90.0 60.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	–	0.0	–	0.0
90.0 70.0	0.0	0.0	0.0	0.0	3.8	–	0.0	0.0	–	0.0	–	–
90.0 90.0	0.0	–	0.0	0.0	2.5	0.0	–	–	–	–	–	–
90.0 139.0	–	–	–	–	2.8	–	–	–	–	–	–	–
90.0 145.0	–	–	–	2.5	0.0	–	–	–	–	–	–	–
93.0 35.0	–	–	–	3.0	4.2	0.0	2.5	0.0	–	–	–	–
93.0 50.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0	0.0	–	0.0	–	0.0
93.0 60.0	–	0.0	–	0.0	4.7	0.0	–	–	–	–	–	–
93.0 65.0	–	–	–	–	–	4.6	–	–	–	–	–	–
93.0 70.0	–	–	–	0.0	–	5.3	–	–	–	–	–	–
97.0 30.0	0.0	0.0	0.0	2.8	3.7	0.0	0.0	0.0	–	0.0	–	0.0

TABLE 4. (cont.)

Disintegrated fish larva (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	40.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
100.0	29.0	0.0	0.0	5.1	0.0	2.6	0.0	0.0	0.0	–	0.0	–	0.0
100.0	30.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	–	0.0	–	0.0
100.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	2.4
103.0	30.0	–	–	–	–	0.0	0.0	0.0	0.0	–	6.7	–	0.0
107.0	32.0	–	–	–	0.0	3.1	0.0	0.0	0.0	–	0.0	–	0.0
107.0	35.0	–	–	–	2.7	0.0	0.0	0.0	13.6	–	0.0	–	0.0
107.0	50.0	–	–	–	0.0	12.4	0.0	–	–	–	–	–	–
107.0	55.0	–	–	–	3.4	6.8	0.0	–	–	–	–	–	–
107.0	90.0	–	–	–	0.0	3.2	–	–	–	–	–	–	–
110.0	33.0	–	0.0	0.0	5.9	–	0.0	0.0	0.0	–	0.0	–	0.0
110.0	40.0	–	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0	–	2.2
110.0	55.0	–	–	–	0.0	3.0	0.0	–	–	–	–	–	–
113.0	45.0	–	–	0.0	1.5	3.0	0.0	–	–	–	–	–	–
113.0	70.0	–	–	–	1.4	0.0	0.0	–	–	–	–	–	–
117.0	30.0	–	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	0.0
117.0	40.0	0.0	0.0	0.0	4.5	0.0	0.0	2.5	0.0	0.0	0.0	–	–
117.0	55.0	–	–	0.0	2.9	0.0	0.0	–	–	–	–	–	–
117.0	60.0	–	0.0	0.0	0.0	2.4	0.0	–	–	–	–	–	–
120.0	25.0	0.0	0.0	0.0	5.3	0.0	0.0	–	0.0	0.0	0.0	–	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	–	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	–	0.0
120.0	40.0	–	–	2.1	0.0	0.0	0.0	–	–	–	–	–	–
120.0	45.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	–	0.0	–	0.0
121.0	34.0	–	–	–	–	–	–	–	–	7.2	–	–	–
123.0	37.0	0.0	0.0	0.9	0.0	0.0	0.0	–	0.0	–	0.0	–	0.0
123.0	40.0	–	0.0	4.8	0.0	0.0	0.0	0.0	0.0	–	0.0	–	0.0
123.0	45.0	–	0.0	1.3	10.0	0.0	0.0	0.0	0.0	–	–	–	–
123.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	6.2	–	0.0	–	0.0
127.0	34.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	–	6.8	–	0.0
127.0	45.0	–	0.0	0.0	22.2	0.0	0.0	0.0	0.0	–	–	–	–
127.0	50.0	–	0.0	0.0	0.0	0.0	0.0	0.0	3.1	–	0.0	–	0.0
130.0	45.0	–	0.0	0.0	10.6	0.0	0.0	0.0	0.0	–	–	–	–
133.0	35.0	–	–	1.4	0.0	0.0	0.0	0.0	0.0	–	–	–	–
133.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	–	3.5	–	0.0
137.0	23.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	–	0.0	–	0.0
147.0	20.0	2.0	–	–	–	–	–	–	–	–	–	–	–

Unidentified fish larva

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	–	–	–	0.0	2.8	0.0	0.0	0.0	–	–	–	–
60.0	60.0	–	–	–	0.0	2.6	0.0	0.0	0.0	–	–	–	–
60.0	90.0	–	–	–	4.6	0.0	–	0.0	7.4	–	–	–	–
60.0	100.0	–	–	–	–	0.0	–	0.0	3.6	–	–	–	–

TABLE 4. (cont.)

Unidentified fish larva (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0	52.0	-	-	-	2.7	0.0	0.0	0.0	0.0	-	-	-	-
80.0	70.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	5.8	-	-	-	-
80.0	100.0	0.0	-	0.0	4.7	0.0	0.0	3.7	2.3	-	-	-	-
80.0	130.0	-	-	-	0.0	3.0	-	-	-	-	-	-	-
80.0	145.0	-	-	-	0.0	2.7	-	-	-	-	-	-	-
80.0	153.0	-	-	-	-	3.0	-	-	-	-	-	-	-
80.0	160.0	-	-	-	0.0	3.0	-	-	-	-	-	-	-
83.0	40.0	-	-	-	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	0.0	0.0
83.0	48.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	2.4	7.4	0.0	0.0	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0
83.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	-	-	0.0	2.3
85.0	39.0	0.0	64.0	2.2	0.0	0.0	0.0	0.0	4.7	3.0	-	0.0	0.0
85.0	40.0	0.0	30.3	0.0	5.0	0.0	0.0	5.3	5.1	0.0	-	3.1	0.0
85.0	45.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0
85.0	60.0	0.0	0.0	6.1	0.0	5.7	0.0	0.0	0.0	-	-	0.0	-
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.7	2.1	-	0.0	0.0
87.0	45.0	-	0.0	3.0	0.0	5.8	0.0	0.0	0.0	0.0	-	0.0	0.0
87.0	50.0	-	0.0	2.0	0.0	31.1	0.0	4.3	0.0	0.0	-	-	0.0
87.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	-	0.0	0.0
90.0	28.0	26.6	0.0	23.8	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
90.0	30.0	0.0	0.0	11.6	0.0	0.0	0.0	23.6	0.0	-	0.0	-	0.0
90.0	37.0	0.0	0.0	0.0	0.0	-	0.0	5.5	0.0	-	0.0	-	0.0
90.0	45.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
90.0	50.0	-	-	0.0	-	0.0	0.0	3.3	0.0	-	0.0	-	4.9
90.0	53.0	0.0	2.2	-	-	-	-	-	-	-	-	-	-
90.0	160.0	-	-	-	0.0	1.9	-	-	-	-	-	-	-
93.0	27.0	0.0	0.0	-	0.0	0.0	5.6	2.1	0.0	-	16.9	-	0.0
93.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	5.1
93.0	40.0	0.0	12.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
93.0	80.0	-	-	-	0.0	-	2.0	-	-	-	-	-	-
97.0	30.0	4.9	2.1	0.0	0.0	0.0	0.0	10.4	17.1	-	0.0	-	0.0
97.0	35.0	-	-	0.0	0.0	0.0	0.0	12.0	0.0	-	0.0	-	0.0
97.0	37.5	-	-	-	-	-	-	-	10.2	-	-	-	-
97.0	45.0	-	-	-	0.0	0.0	12.6	3.3	-	-	-	-	-
97.0	70.0	-	-	-	3.0	0.0	0.0	-	-	-	-	-	-
97.0	90.0	-	-	-	3.4	-	2.6	-	-	-	-	-	-
100.0	29.0	13.2	2.8	0.0	45.0	2.6	0.0	10.4	0.0	-	8.1	-	0.0
100.0	30.0	20.9	0.0	2.8	0.0	0.0	3.1	0.0	0.0	-	0.0	-	0.0
100.0	35.0	-	-	-	0.0	0.0	4.1	0.0	0.0	-	-	-	-
100.0	40.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	-	5.4	-	0.0
100.0	60.0	0.0	0.0	2.7	2.8	0.0	0.0	0.0	0.0	-	5.3	-	0.0
100.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	-	8.8	-	0.0
103.0	30.0	-	-	-	-	0.0	0.0	2.1	0.0	-	3.4	-	2.4
103.0	35.0	-	-	-	0.0	2.9	0.0	0.0	0.0	-	3.8	-	0.0

TABLE 4. (cont.)

Unidentified fish larva (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	45.0	-	-	-	0.0	0.0	6.3	-	-	-	-	-	-
103.0	60.0	-	-	-	0.0	0.0	5.2	-	-	-	-	-	-
103.0	80.0	-	-	-	0.0	2.4	0.0	-	-	-	-	-	-
105.0	32.0	2.1	4.8	3.0	-	-	-	-	-	-	-	-	-
107.0	32.0	-	-	-	3.1	0.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0	35.0	-	-	-	0.0	5.2	0.0	0.0	0.0	-	3.5	-	0.0
107.0	40.0	-	-	-	0.0	0.0	0.0	0.0	0.0	-	3.5	-	0.0
107.0	60.0	-	-	-	2.8	0.0	0.0	-	-	-	-	-	-
110.0	33.0	-	3.0	0.0	5.9	-	0.0	2.3	0.0	-	0.0	-	0.0
110.0	40.0	-	0.0	2.8	0.0	0.0	0.0	0.0	0.0	-	3.9	-	0.0
110.0	45.0	-	-	-	0.0	2.6	0.0	-	-	-	-	-	-
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.9	-	0.0
110.0	60.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	3.5	-	0.0	-	0.0
113.0	30.0	-	20.3	0.0	0.0	0.0	0.0	8.2	3.3	37.7	0.0	-	0.0
113.0	35.0	-	0.0	5.4	1.4	0.0	0.0	0.0	0.0	0.0	3.4	-	0.0
113.0	40.0	-	0.0	2.4	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	45.0	-	-	0.0	0.0	3.0	0.0	-	-	-	-	-	-
113.0	70.0	-	-	-	0.0	0.0	2.7	-	-	-	-	-	-
115.0	26.0	-	-	-	-	-	-	-	-	6.5	-	-	-
115.0	35.0	-	-	-	-	-	-	-	-	6.7	-	-	-
117.0	26.0	-	0.0	0.0	13.9	0.0	2.6	0.0	0.0	3.5	0.0	-	0.0
117.0	30.0	-	0.0	0.0	0.0	0.0	2.4	0.0	9.6	0.0	0.0	-	0.0
117.0	35.0	-	9.0	0.0	2.7	0.0	0.0	0.0	4.8	0.0	0.0	-	-
117.0	40.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	2.5	38.2	0.0	-	-
117.0	45.0	-	-	2.7	0.0	0.0	0.0	-	-	-	-	-	-
117.0	50.0	0.0	0.0	0.0	0.0	0.0	2.8	-	-	-	-	-	-
117.0	55.0	-	-	0.0	1.5	0.0	0.0	-	-	-	-	-	-
117.0	60.0	-	0.0	0.0	7.4	0.0	0.0	-	-	-	-	-	-
117.0	70.0	-	-	-	3.4	0.0	0.0	-	-	-	-	-	-
118.5	25.0	-	-	-	-	-	-	-	-	5.3	-	-	-
118.5	30.0	-	-	-	-	-	-	-	-	2.2	-	-	-
118.5	35.0	-	-	-	-	-	-	-	-	3.3	-	-	-
119.0	42.0	-	-	-	-	-	-	-	-	10.1	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	1.9	4.6	-	10.3	9.8	2.9	-	0.0
120.0	30.0	0.0	0.0	0.0	0.8	0.0	0.0	3.2	0.0	17.5	0.0	-	0.0
120.0	31.0	-	-	-	-	-	-	-	-	14.0	-	-	-
120.0	35.0	0.0	0.0	2.7	0.0	0.0	0.0	7.6	9.4	17.5	0.0	-	0.0
120.0	40.0	-	-	26.8	0.0	0.0	0.0	-	-	-	-	-	-
120.0	43.0	-	-	-	-	-	-	-	-	14.3	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	5.5	0.0	2.5	26.5	-	17.9	-	5.3
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	-	3.6	-	2.7
120.0	60.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	29.4	-	0.0	-	0.0
120.0	70.0	0.0	0.0	-	0.0	2.9	0.0	0.0	2.7	-	3.6	-	0.0
120.0	80.0	0.0	0.0	-	0.0	0.0	2.6	0.0	0.0	-	0.0	-	0.0
120.0	90.0	-	-	-	1.3	0.0	0.0	0.0	2.8	-	3.4	-	0.0
121.0	30.0	-	-	-	-	-	-	-	-	23.0	-	-	-

TABLE 4. (cont.)

Unidentified fish larva (cont.)

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
121.0	34.0	-	-	-	-	-	-	-	-	21.6	-	-	-
121.1	26.0	-	-	-	-	-	-	-	-	7.2	-	-	-
121.3	31.0	-	-	-	-	-	-	-	-	-	-	-	2.0
121.5	28.0	-	-	-	-	-	-	-	-	2.1	-	-	-
123.0	37.0	0.0	2.2	1.3	0.0	0.0	0.0	-	0.0	-	24.8	-	11.9
123.0	40.0	-	0.0	1.4	3.0	0.0	2.6	0.0	0.0	-	51.8	-	9.3
123.0	45.0	-	0.0	3.2	0.0	0.0	0.0	3.6	7.6	-	-	-	-
123.0	50.0	-	0.0	0.0	0.0	0.0	0.0	0.0	24.9	-	7.3	-	2.2
123.0	55.0	-	-	1.4	2.3	0.0	0.0	-	-	-	-	-	-
123.0	60.0	-	-	1.4	0.0	6.8	0.0	-	-	-	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	-	6.8	-	0.0
127.0	40.0	-	0.0	16.3	0.0	0.0	2.4	0.0	2.9	-	26.6	-	0.0
127.0	45.0	-	0.0	5.5	2.8	0.0	0.0	0.0	0.0	-	-	-	-
127.0	50.0	-	0.0	1.5	0.0	0.0	0.0	0.0	3.1	-	4.0	-	0.0
127.0	60.0	-	-	20.0	0.0	0.0	0.0	-	-	-	-	-	-
130.0	30.0	-	0.0	0.7	0.0	0.0	3.0	-	31.9	-	3.3	-	0.0
130.0	35.0	0.0	5.3	4.4	2.6	2.4	0.0	5.7	0.0	-	3.5	-	4.7
130.0	40.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	-	16.4	-	0.0
130.0	50.0	-	0.0	5.5	0.0	0.0	0.0	4.1	4.0	-	3.7	-	0.0
130.0	55.0	-	-	4.7	0.0	0.0	2.5	-	-	-	-	-	-
130.0	60.0	0.0	0.0	1.5	0.0	0.0	2.2	0.0	0.0	-	-	-	0.0
133.0	25.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	-	9.6	-	0.0
133.0	30.0	0.0	2.6	2.1	0.0	0.0	0.0	0.0	10.9	-	0.0	-	0.0
133.0	35.0	-	-	5.4	0.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	40.0	0.0	0.0	1.8	3.2	0.0	0.0	0.0	0.0	-	14.2	-	0.0
133.0	45.0	-	-	4.9	17.4	0.0	0.0	-	-	-	-	-	-
133.0	50.0	0.0	-	4.3	0.0	0.0	0.0	-	-	-	-	-	-
133.0	55.0	-	-	3.4	3.0	2.0	-	-	-	-	-	-	-
137.0	23.0	0.0	0.0	1.0	1.3	0.0	0.0	140.4	186.0	-	6.7	-	3.8
137.0	30.0	0.0	-	0.0	0.0	0.0	0.0	18.6	18.9	-	-	-	2.0
137.0	40.0	0.0	-	7.6	0.0	0.0	0.0	-	-	-	-	-	-
143.0	26.0	4.9	-	-	-	-	-	-	-	-	-	-	-
143.0	35.0	2.3	-	-	-	-	-	-	-	-	-	-	-
147.0	20.0	2.0	-	-	-	-	-	-	-	-	-	-	-
150.0	25.0	10.6	-	-	-	-	-	-	-	-	-	-	-
150.0	30.0	10.9	-	-	-	-	-	-	-	-	-	-	-
150.0	40.0	2.4	-	-	-	-	-	-	-	-	-	-	-

TABLE 5. Summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1951 to 1960. Taxa are listed in the same order as Table 4.

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Albula vulpes	3	-	-	-	-	-	1	-	-	-
Anguilliformes	35	26	15	30	4	11	33	36	33	16
Etrumeus acuminatus	25	18	28	28	5	8	27	45	31	29
Opisthonema spp.	1	4	-	1	-	4	3	4	1	-
Sardinops sagax	167	269	221	375	255	167	174	193	172	142
Engraulidae	-	-	-	-	1	-	-	2	2	-
Engraulis mordax	394	524	686	760	569	537	581	785	888	979
Alepocephalidae	2	-	-	-	1	-	-	-	-	-
Argentina sialis	55	68	89	110	81	77	56	31	30	53
Microstoma microstoma	21	28	18	39	22	17	16	34	25	23
Nansenia candida	29	17	18	27	8	13	7	17	13	20
Nansenia crassa	50	63	65	47	61	32	74	49	27	38
Bathylagus spp.	-	-	-	1	3	1	4	13	7	3
Bathylagus milleri	1	-	-	1	1	2	-	1	1	1
Bathylagus ochotensis	153	222	208	195	162	171	111	237	106	190
Bathylagus pacificus	12	15	4	11	2	-	2	24	13	2
Bathylagus wesethi	259	370	258	365	286	157	298	377	275	184
Leuroglossus schmidti	-	-	-	-	-	3	-	-	-	-
Leuroglossus stilbius	402	502	612	517	508	465	343	350	324	505
Osmeridae	-	-	-	-	-	2	-	-	-	2
Stomiiformes	-	1	16	6	3	3	2	9	13	17
Cyclothone spp.	253	283	161	184	184	74	240	317	514	271
Diplophos taenia	8	1	-	4	1	3	3	28	36	18
Ichthyococcus spp.	16	23	12	26	30	3	18	37	43	8
Vinciguerria lucetia	532	474	329	425	338	225	574	882	1209	635
Sternoptychidae	38	67	68	49	41	29	63	86	94	66
Chauliodus macouni	55	69	47	54	49	54	48	75	72	69
Idiacanthus antrostomus	48	31	14	19	10	6	19	33	38	36
Aristostomias scintillans	16	8	10	2	4	2	10	11	11	5
Bathophilus spp.	4	-	2	1	5	3	4	4	7	10
Tactostoma macropus	20	15	-	11	-	-	9	2	2	7
Stomias atriventer	96	120	86	124	87	20	67	182	181	142
Myctophiformes	-	-	-	-	-	-	-	-	-	2
Anotopterus pharao	1	-	-	-	-	-	1	-	-	-
Evermannellidae	-	-	-	-	1	-	-	-	6	3
Paralepididae	169	179	95	123	80	59	92	145	165	108
Aulopus spp.	1	-	-	-	-	-	1	-	-	-
Scopelosaurus spp.	-	-	-	-	1	1	-	3	16	15
Scopelarchidae	59	54	17	28	34	16	43	50	93	63
Myctophidae	99	186	59	53	60	55	175	174	245	317
Ceratoscopelus townsendi	140	78	33	41	58	36	165	159	373	156
Diaphus spp.	116	156	63	111	81	101	66	90	103	76
Lampadena urophaos	39	22	-	10	10	14	63	44	120	46
Lampanyctus spp.	576	555	393	154	58	45	125	121	260	209
Lampanyctus regalis	-	-	-	19	19	14	26	28	46	12
Lampanyctus ritteri	-	-	-	308	296	214	306	416	429	311

TABLE 5. (cont.)

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Notolychnus valdiviae	5	4	4	2	1	2	-	1	3	12
Notoscopelus resplendens	16	4	10	8	23	1	31	24	76	64
Stenobrachius leucopsarus	369	405	365	452	251	395	267	361	327	386
Triphoturus mexicanus	589	715	573	565	475	322	641	768	1069	808
Centrobranchus spp.	-	-	-	-	-	-	-	-	-	1
Diogenichthys spp.	10	3	2	-	6	3	30	35	79	97
Diogenichthys atlanticus	109	112	68	87	90	85	109	126	116	121
Diogenichthys laternatus	230	233	232	346	265	113	412	416	442	210
Electrona rissoi	15	4	4	-	1	-	-	-	2	1
Gonichthys tenuiculus	49	44	38	45	37	12	81	126	181	55
Hygophum spp.	29	20	23	10	6	6	15	47	91	73
Hygophum atratum	47	35	33	36	43	22	88	96	138	21
Hygophum proximum	-	-	-	-	-	-	-	-	-	2
Hygophum reinhardtii	17	14	1	5	13	7	20	6	16	44
Loweina rara	19	18	33	29	14	5	7	8	9	10
Myctophum aurolaternatum	6	-	-	1	1	4	3	13	4	4
Myctophum nitidulum	30	34	7	11	13	13	27	56	105	43
Protomyctophum crockeri	370	345	211	293	312	243	254	360	424	417
Symbolophorus californiensis	206	183	132	146	102	60	142	216	191	109
Tarletonbeania crenularis	306	399	243	164	103	236	116	90	113	222
Synodus spp.	41	63	44	82	41	39	70	53	66	51
Bregmaceros spp.	2	-	-	1	3	-	13	11	13	19
Merluccius productus	351	366	417	543	439	365	331	541	340	468
Moridae	1	-	-	-	-	-	5	-	-	-
Physiculus spp.	9	-	-	-	-	2	8	5	2	3
Macrouridae	5	4	6	15	3	6	2	7	3	4
Ophidiiformes	68	53	52	37	26	37	74	61	43	41
Brosmophycis marginata	9	18	9	19	6	12	14	16	10	3
Carapidae	2	1	1	3	1	2	-	4	-	1
Chilara taylori	6	17	-	8	14	9	6	-	17	8
Ophidion scrippsae	17	13	5	17	4	19	53	15	44	43
Porichthys spp.	2	-	1	-	-	-	-	-	-	1
Antennariidae	1	-	-	-	-	-	1	-	-	-
Ceratioidei	3	3	-	2	-	2	16	16	50	19
Lophiidae	-	-	-	-	-	-	-	-	1	-
Gobiesocidae	-	1	-	-	1	-	1	1	-	1
Exocoetidae	8	2	6	1	-	1	5	1	6	4
Hemiramphidae	5	-	-	-	-	-	1	1	-	-
Cololabis saira	53	28	42	22	54	23	14	28	20	16
Atherinidae	2	6	3	7	3	3	1	2	1	1
Trachipteridae	32	40	28	17	13	12	28	31	12	32
Melamphaes spp.	221	233	151	189	166	138	212	238	209	157
Poromitra spp.	1	4	12	28	4	18	21	4	17	19
Scopeloberyx robustus	-	-	-	-	-	-	-	-	-	3
Scopelogadus bispinosus	4	4	1	15	6	5	26	27	60	26
Fistulariidae	-	-	-	-	-	-	-	1	-	-
Macroramphosus gracilis	1	-	-	-	2	-	2	-	1	1
Syngnathus spp.	5	6	12	4	6	2	5	2	3	7

TABLE 5. (cont.)

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Agonidae	2	4	12	23	10	7	11	11	8	8
Anoplopoma fimbria	-	1	1	-	-	-	-	-	-	-
Cottidae	24	36	22	49	57	37	31	20	27	30
Scorpaenichthys marmoratus	6	8	3	17	4	13	3	6	4	6
Cyclopteridae	4	13	16	8	5	8	3	4	2	11
Hexagrammidae	1	-	-	-	-	-	1	2	-	1
Ophiodon elongatus	-	1	-	-	2	1	1	3	-	-
Oxylebius pictus	-	-	4	3	-	7	4	12	3	9
Zaniolepis spp.	-	1	9	5	4	9	2	6	6	9
Scorpaenidae	10	9	2	-	-	1	1	-	2	2
Scorpaena spp.	-	-	-	-	-	15	30	9	28	29
Sebastes spp.	600	686	771	841	637	613	558	665	602	572
Sebastolobus spp.	24	16	2	1	-	2	5	2	10	25
Prionotus spp.	24	19	12	13	-	19	30	25	28	17
Blennioidei	2	-	-	-	-	1	2	-	-	1
Bathymasteridae	-	-	-	-	-	-	-	-	-	1
Hypsoblennius spp.	18	32	38	27	14	11	26	51	59	47
Clinidae	7	4	12	19	15	17	14	20	15	18
Gobiidae	116	107	61	113	56	71	93	84	108	67
Icosteus aenigmaticus	1	4	-	-	-	1	-	-	2	3
Labridae	74	135	93	124	57	39	97	82	122	75
Pomacentridae	-	-	-	14	-	8	24	9	18	2
Chromis punctipinnis	37	27	-	21	4	18	12	16	16	38
Hypsypops rubicundus	-	-	-	-	-	-	-	-	2	-
Mugil spp.	2	-	-	1	-	2	1	-	9	3
Apogonidae	1	-	2	-	-	-	-	3	5	4
Brama spp.	4	1	-	2	2	-	15	5	9	6
Carangidae	15	14	-	9	-	9	10	15	26	12
Seriola spp.	-	-	-	1	-	-	-	-	1	1
Seriola lalandi	-	-	-	5	2	11	36	7	36	21
Trachurus symmetricus	372	419	322	373	369	217	295	328	286	227
Coryphaena hippurus	-	-	-	-	-	6	24	13	27	7
Gerreidae	-	-	-	-	-	-	13	5	7	8
Haemulidae	-	-	-	-	-	-	14	6	11	17
Girella nigricans	-	5	-	1	-	3	3	4	2	4
Medialuna californiensis	9	11	-	17	5	5	12	2	1	4
Caulolatilus princeps	-	-	-	12	4	8	10	2	10	9
Mullidae	-	-	-	-	-	-	-	-	6	-
Priacanthidae	-	-	-	-	-	-	-	-	1	-
Sciaenidae	12	61	30	90	61	58	70	76	71	74
Serranidae	20	29	10	29	1	8	17	31	66	39
Gempylidae	2	1	-	-	-	-	-	6	4	10
Scombridae	-	1	-	1	2	-	7	4	3	40
Auxis spp.	9	1	1	1	-	9	23	3	20	-
Euthynnus spp.	-	-	-	-	-	-	-	-	3	-
Sarda chiliensis	-	-	-	-	-	4	1	2	9	2
Scomber japonicus	59	73	97	119	93	39	71	81	65	45
Scomberomorus spp.	1	-	-	-	-	1	1	3	2	-

TABLE 5. (cont.)

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Thunnus albacares	-	-	-	-	-	-	-	8	2	-
Trichiuridae	23	31	16	36	25	28	47	24	61	45
Sphyraena argentea	14	16	5	6	3	14	15	15	27	28
Icichthys lockingtoni	125	139	114	125	105	95	70	79	74	86
Nomeidae	-	-	-	-	-	-	5	2	9	3
Peprilus simillimus	14	50	28	38	47	34	37	26	22	12
Tetragonurus cuvieri	29	17	8	10	65	146	124	17	26	29
Chiasmodontidae	24	33	16	31	24	14	57	59	75	34
Uranoscopidae	1	-	-	-	-	-	1	1	1	2
Pleuronectiformes	9	13	48	46	13	6	5	11	5	16
Bothidae	-	1	-	-	-	-	-	-	-	-
Bothus spp.	3	-	1	3	1	2	4	8	4	2
Citharichthys spp.	428	524	561	147	158	82	127	118	121	151
Citharichthys fragilis	-	-	-	152	107	93	125	101	106	137
Citharichthys platophrys	-	-	-	-	-	-	-	-	1	-
Citharichthys sordidus	-	-	-	109	56	59	62	69	48	20
Citharichthys stigmaeus	-	-	-	347	206	207	191	136	134	101
Citharichthys xanthostigma	-	-	-	189	163	106	208	80	118	117
Etropus spp.	-	-	-	4	-	-	16	16	20	14
Hippoglossina spp.	1	-	-	-	-	-	-	-	-	1
Hippoglossina stomata	13	27	42	57	22	34	44	33	32	39
Paralichthys spp.	-	-	-	-	-	-	-	1	-	1
Paralichthys californicus	18	50	19	42	22	23	30	48	37	39
Syacium ovale	5	2	1	3	-	2	6	8	8	1
Xystreurys liolepis	3	16	10	5	4	1	7	2	5	8
Eopsetta jordani	-	1	-	-	-	-	-	-	-	-
Glyptocephalus zachirus	12	25	6	9	5	8	11	14	8	7
Hypsopsetta guttulata	-	-	2	-	-	-	1	3	-	1
Isopsetta isolepis	-	-	-	-	-	-	-	1	-	-
Lyopsetta exilis	51	80	68	116	57	74	90	50	48	50
Microstomus pacificus	28	30	17	17	30	19	26	20	20	15
Parophrys vetulus	-	31	45	51	50	36	39	62	29	30
Pleuronichthys spp.	14	14	10	18	23	18	7	13	7	10
Pleuronichthys coenosus	17	6	13	11	17	3	5	5	5	5
Pleuronichthys decurrens	4	4	4	2	4	2	3	4	4	3
Pleuronichthys ritteri	1	8	9	-	4	5	3	3	2	2
Pleuronichthys verticalis	3	44	24	31	26	33	40	7	7	36
Psettichthys melanostictus	-	-	-	5	-	1	5	5	3	2
Symphurus spp.	45	50	36	35	11	49	80	40	75	64
Balistidae	1	-	-	-	-	-	-	1	-	-
Tetraodontidae	2	-	-	-	1	-	-	-	-	-
Disintegrated fish larva	229	253	74	63	124	103	193	258	361	482
Unidentified fish larva	187	218	284	161	99	100	129	181	272	343

TABLE 6. List of stations with multiple occupancies in one month during 1953. Stations were occupied twice in one month except those indicated by an asterisk, which were occupied three times.

Station		Month
85.0	40.0	1
85.0	45.0	1
123.0	37.0	3
123.0	40.0	3
123.0	45.0	3
123.0	50.0	3
123.0	55.0	3
123.0	60.0	3
127.0	34.0	3
127.0	40.0	3
127.0	45.0	3
127.0	50.0	3
127.0	55.0	3
127.0	60.0	3
130.0	30.0	3
130.0	35.0	3
130.0	40.0	3
130.0	45.0	3
130.0	50.0	3
130.0	55.0	3
130.0	60.0	3
133.0	25.0	3
133.0	30.0	3
133.0	35.0	3
133.0	40.0	3
133.0	45.0	3
133.0	50.0	3
137.0	23.0	3
137.0	30.0	3
137.0	35.0	3
137.0	40.0	3
137.0	45.0	3
137.0	50.0	3
83.0	48.0	4
85.0	39.0	4
85.0	40.0	4
85.0	45.0	4
85.0	50.0	4
85.0	55.0	4
113.0	30.0	4
113.0	35.0	4
113.0	40.0	4
113.0	45.0	4
113.0	50.0	4
113.0	55.0	4
113.0	60.0	4
113.0	70.0	4
117.0	26.0	4
117.0	35.0	4
117.0	30.0	4
117.0	40.0	4
117.0	45.0	4
117.0	50.0	4
117.0	55.0	4
117.0	60.0	4
117.0	70.0	4
120.0	25.0	4
120.0	30.0	4
120.0	35.0	4
120.0	40.0	4
120.0	45.0	4
120.0	50.0	4
120.0	55.0	4
120.0	60.0	4
120.0	70.0	4
120.0	80.0	4
120.0	90.0	4
83.0	43.0	5
83.0	48.0	5
83.0	51.0	5
83.0	55.0	5
83.0	60.0	5
85.0	39.0	5
85.0	40.0	5
85.0	45.0	5
85.0	50.0	5
85.0	60.0	5
87.0	35.0 *	5
87.0	40.0	5
87.0	45.0	5
87.0	50.0	5
87.0	55.0	5
87.0	60.0	5
83.0	51.0	7
85.0	39.0	7
85.0	45.0	7
85.0	50.0	7
87.0	40.0	7
87.0	45.0	7
120.0	30.0	9

INDEX

This index lists taxa included in Table 4 with their page numbers.

	Page
Anguilliformes	72
Clupeiformes	
Clupeidae	
Etrumeus acuminatus	72
Sardinops sagax	73
Engraulidae	
Engraulis mordax	75
Salmoniformes	
Argentinidae	
Argentina sialis	78
Microstoma microstoma	79
Nansenia candida	79
Nansenia crassa	80
Bathylagidae	
Bathylagus ochotensis	81
Bathylagus pacificus	83
Bathylagus wesethi	83
Leuroglossus stilbius	86
Stomiiformes	90
Gonostomatidae	
Cyclothone spp.	91
Ichthyococcus spp.	93
Vinciguerria lucetia	93
Sternoptychidae	96
Stomiatoidea	
Chauliodontidae	
Chauliodus macouni	97
Idiacanthidae	
Idiacanthus antrostomus	98
Malacosteidae	
Aristostomias scintillans	99
Melanostomiidae	
Bathophilus spp.	99
Stomiidae	
Stomias atriventer	99
Myctophiformes	
Alepisauroidei	
Paralepididae	100
Chloropthalmoidei	
Scopelarchidae	102
Myctophoidei	
Myctophidae	102
Lampanyctinae	
Ceratoscopelus townsendi	104
Diaphus spp.	104
Lampanyctus spp.	106

Page

Notolychnus valdiviae 110
Notoscopelus resplendens 110
Stenobrachius leucopsarus 110
Triphoturus mexicanus 113
Myctophinae
Diogenichthys spp. 117
Diogenichthys atlanticus 117
Diogenichthys laternatus 118
Electrona rissoi 120
Gonichthys tenuiculus 120
Hygophum spp. 121
Hygophum atratum 121
Hygophum reinhardtii 122
Loweina rara 122
Myctophum nitidulum 123
Protomyctophum crockeri 123
Symbolophorus californiensis 126
Tarletonbeania crenularis 128
Synodontoidei
Synodontidae
Synodus spp. 130
Gadiformes
Merlucciidae
Merluccius productus 131
Macrouridae 135
Ophidiiformes 135
Bythitidae
Brosmophysis marginata 136
Carapidae 136
Ophidiidae
Ophidion scrippsae 136
Batrachoidiformes
Batrachoididae
Porichthys spp. 137
Beloniformes
Exocoetidae 137
Scomberesocidae
Cololabis saira 137
Atheriniformes
Atherinidae 138
Lampriformes
Trachipteridae 138
Beryciformes
Melamphaidae
Melamphaes spp. 139
Poromitra spp. 141
Scopelogadus bispinosus 141
Syngnathiformes
Syngnathidae
Syngnathus spp. 141
Scorpaeniformes
Cottoidei

Page

Agonidae 142
Anoplopomatidae
Anoplopoma fimbria 142
Cottidae 142
Scorpaenichthys marmoratus 142
Cyclopteridae 143
Hexagrammidae
Oxylebius pictus 143
Zaniolepsis spp. 143
Scorpaenoidei
Scorpaenidae 143
Sebastes spp. 143
Sebastolobus spp. 148
Triglidae
Prionotus spp. 148
Perciformes
Blennioidei
Blenniidae
Hypsoblennius spp. 148
Clinidae 149
Gobioidei
Gobiidae 149
Labroidei
Labridae 150
Percoidei
Apogonidae 152
Carangidae
Trachurus symmetricus 152
Sciaenidae 156
Serranidae 156
Scombroidei
Scombridae
Auxis spp. 157
Scomber japonicus 157
Trichiuridae 158
Sphyraenoidei
Sphyraenidae
Sphyraena argentea 159
Stromateoidei
Centrolophidae
Icichthys lockingtoni 159
Stromateidae
Peprilus simillimus 160
Tetragonuridae
Tetragonurus cuvieri 161
Trachinoidei
Chiasmodontidae 161
Pleuronectiformes 162
Pleuronectoidei
Bothidae
Bothus spp. 163
Paralichthyidae

Page

Citharichthys spp. 163
Hippoglossina stomata 166
Paralichthys californicus 167
Syacium ovale 168
Xystreurys liolepis 168
Pleuronectidae
Glyptocephalus zachirus 168
Hypsopsetta guttulata 168
Lyopsetta exilis 168
Microstomus pacificus 169
Parophrys vetulus 170
Pleuronichthys spp. 171
Pleuronichthys coenosus 171
Pleuronichthys decurrens 171
Pleuronichthys ritteri 172
Pleuronichthys verticalis 172
Soleoidei
Cynoglossidae
Symphurus spp. 172
Disintegrated fish larva 173
Unidentified fish larva 174

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